SONY

4-113-173-**11**(1)

IC Recorder

Owner's Record

The model number is located at the rear panel and the serial number is located inside the battery compartment. Record these numbers in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. ICD-PX720

Serial No. _____

Operating Instructions

ICD-PX720

Getting Started
Recording
Playback
Editing Messages
Utilizing the Menu Function
Utilizing Your Computer
Troubleshooting
Additional Information
Index

IC RECORDER

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FOR UNITED STATES CUSTOMERS.

NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF QUEBEC.

POUR LES CONSOMMATEURS AUX ÉTATS-UNIS.

NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE QUÉBEC.

For the customers in the United States

The following FCC statement applies only to the version of this model manufactured for sale in the USA. Other versions may not comply with FCC technical regulations.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

If you have any questions about this product, you may call: Sony Customer Information Service Center 1-800-222-7669 or http://www.sony.com/

Declaration of Conformity

Trade Name	:	SONY
Model	:	ICD-PX720
Responsible Party	:	Sony Electronics Inc.
Address	:	16530 Via Esprillo, San Diego, CA 92127 USA
Telephone Number	:	858-942-2230

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice for the customers in Canade

This Class B digital apparatus complies with Canadian ICES-003.

- The recorded music is limited to private use only. Use of the music beyond this limit requires permission of the copyright holders.
- Sony is not responsible for incomplete recording/downloading or damaged data due to problems of the IC recorder or computer.
- Depending on the types of the text and characters, the text shown on the IC recorder may not be displayed properly on device. This is due to:
  – The capacity of the connected IC recorder.
  – The IC recorder is not functioning normally.
  – Content information is written in the language or the character that is not supported by the IC recorder.

Notice for users

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Sony Corporation reserves the right to make any modification to this manual or the information contained herein at any time without notice.
The software described herein may also be governed by the terms of a separate user license agreement.

- This software is for Windows and cannot be used for Macintosh.
- The supplied connecting cable is for the IC recorder ICD-PX720. You cannot connect other IC recorders.

Table of Contents

Checking the Contents of the Package 7
Index to Parts and Controls 8

Getting Started

Step 1: Preparing a Power Source 12
Inserting the batteries 12
When replacing the batteries 13
Step 2: Setting the Clock 15
Continued directly from "Step 1: Preparing a Power Source" 16
Setting the clock using the menu ... 16
Turning the IC Recorder On or Off 18
Turning the power off 18
Turning the power on 18

Recording

Recording Messages 19
Selecting the Recording Mode 22
Selecting a Folder 24
Setting the Microphone Sensitivity 25
Starting to Record Automatically in Response to Sound – the VOR Function 27
Dividing a Message into Two During Recording 28
Recording with an External Microphone or from Other Equipment 30
Recording sound from a telephone or a cell phone 31
Adding a Recording to a Previously Recorded Message 32
Adding an Overwrite Recording during Playback 34

Playback

Playing Back Messages.....36
Playing Back All Messages in a Folder Continuously – the Continuous Play.....39
Playing Back a Specified Section Repeatedly – A-B Repeat.....41
Adjusting the Playback Speed – the DPC Function.....42
Recording with Other Equipment.....43
Playing Back a Message at a Desired Time with an Alarm.....45

Editing Messages

Erasing Messages.....49
- Erasing messages one by one.....49
- Erasing all messages in a folder.....51

Moving a Message to a Different Folder.....52
Dividing a Message into Two.....53
Preventing Accidental Operation – the HOLD Function.....55
Selecting the Display.....56

Utilizing the Menu Function

Making Settings for the Menu.....58

Utilizing Your Computer

Using the Supplied Digital Voice Editor Software.....66
- What You Can Do Using the Digital Voice Editor Software.....66
- System requirements.....68
- Installing the software.....69
- Connecting the IC recorder to your computer.....72
- Referring to the help files.....73
- Disconnecting the IC recorder from your computer.....74

Troubleshooting

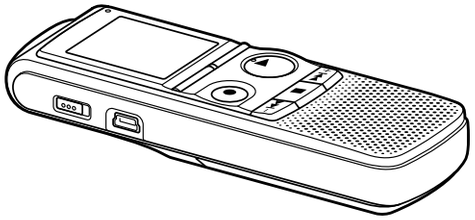
Troubleshooting.....75
- Error messages.....82
- System limitations.....84

Additional Information

Using a USB AC Adaptor (not supplied) 85
Disconnecting the IC recorder from the AC outlet.....86
Precautions.....87
Specifications.....88
Index.....90

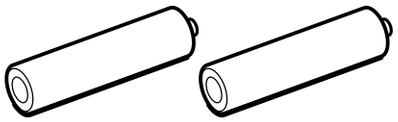
Checking the Contents of the Package

IC Recorder (1)

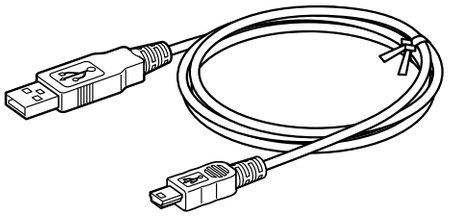


Remove the film on the display window before you use the IC recorder.

LR03 (size AAA) alkaline batteries (2)



USB connecting cable (1)



Application Software, Digital Voice Editor (CD-ROM)

Stereo headphones* (1)

Carrying pouch* (1)

Operating Instructions

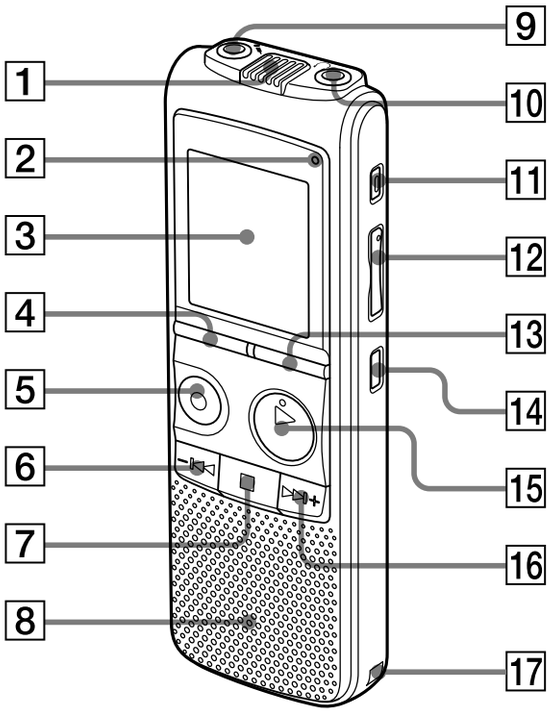
* The stereo headphones, carrying pouch are supplied with some models in some regions only.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Index to Parts and Controls

Refer to the pages indicated in parentheses for details.

Front



1 Built-in microphones (19)

2 Operation indicator (15, 19, 36, 64)

3 Display window (9)

4 DIVIDE button (29, 54)

5 ● REC/PAUSE button (19, 21)

6 –⏮ (review/fast backward) button (36, 37, 58)

7 ■ (stop) button (20, 37, 47, 59)

8 Speaker

9 🎤 (microphone) jack (30)

10 🎧 (headphone) jack (21, 37, 44)

11 ERASE button (50)

12 VOL (volume)+/– button (21, 37)

13 DISPLAY/MENU button (57, 58)

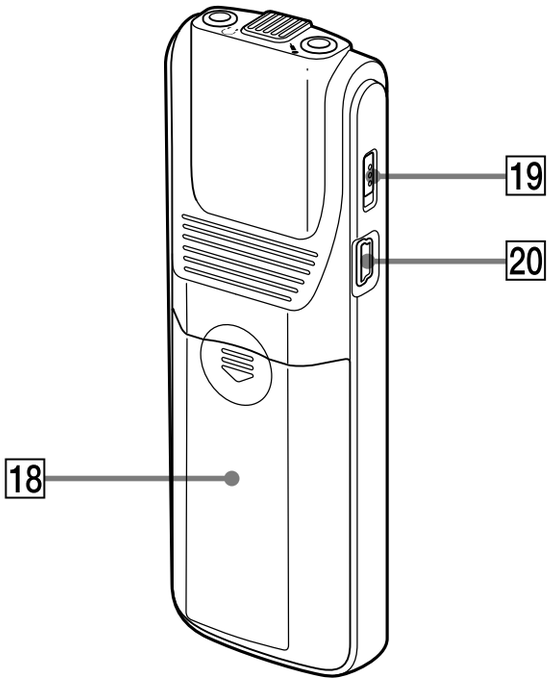
14 🔁 (repeat) A-B button (41)

15 ► PLAY/STOP•ENTER button (21, 36, 38, 58)

16 ⏭+ (cue/fast forward) button (36, 37, 58)

17 Opening for a handstrap (A handstrap is not supplied.)

Rear

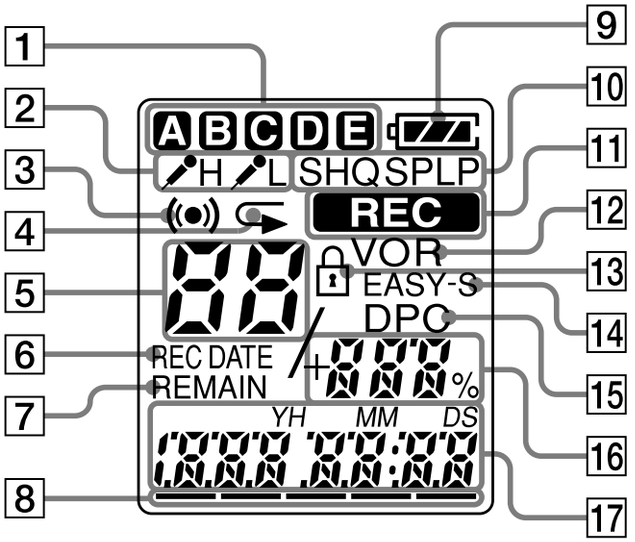


18 Battery compartment (12)

19 HOLD switch (18, 56)

20 ♆ (USB) connector (72, 85)

Display window



1 Folder indicator

Displays the folder (A, B, C, D, or E) you have selected.

2 Microphone sensitivity

Displays the microphone sensitivity.

- H (high): To record at a meeting or in a quiet/spacious place.
- L (low): To record for dictation or in a noisy place.

3 Alarm indicator

Appears when the alarm is set for a message.

4 Repeat play indicator

Appears when a message is played back repeatedly.

5 Selected message number

6 REC DATE (recorded date) indicator

The recording date is displayed with the REC DATE indicator.

7 REMAIN indicator

When the IC recorder is in the recording mode, the remaining recording time is displayed with the REMAIN indicator, or when the IC recorder is in the playback/stop mode, the remaining time of the current message is displayed with the REMAIN indicator.

8 Remaining memory indicator

Displays the remaining memory and decreases one by one during recording.

9 Battery indicator

Displays the remaining battery power.

10 Recording mode indicator

Displays the recording mode set using the menu when the IC recorder is in the stop mode, and displays the current recording mode when the IC recorder is in the playback or recording mode.

LP : Long play monaural recording mode

SP : Standard play monaural recording mode

HQ : High-quality monaural recording mode

SHQ : Super high- quality monaural recording mode

11 REC (recording) indicator

Appears while the IC recorder is recording.

12 VOR indicator

Appears when the VOR function is set to "ON" in the menu and flashes when the IC recorder pauses during recording with the VOR function.

13 Lock indicator

Appears when "LOCK" is set to "ON" in the menu.

14 EASY-S (Easy Search) indicator

Appears when the easy search function is set to “ON” in the menu.

15 DPC indicator

Appears when the DPC (Digital Pitch Control) function is set to “ON” in the menu.

16 Total number of messages in the folder/DPC setting

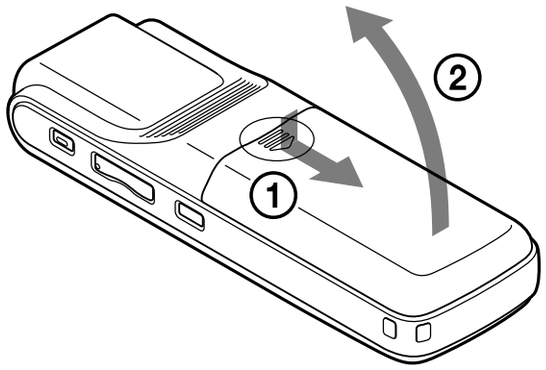
17 Elapsed time/ Remaining time/ Recorded or Recording date and time indication/Message

Step 1: Preparing a Power Source

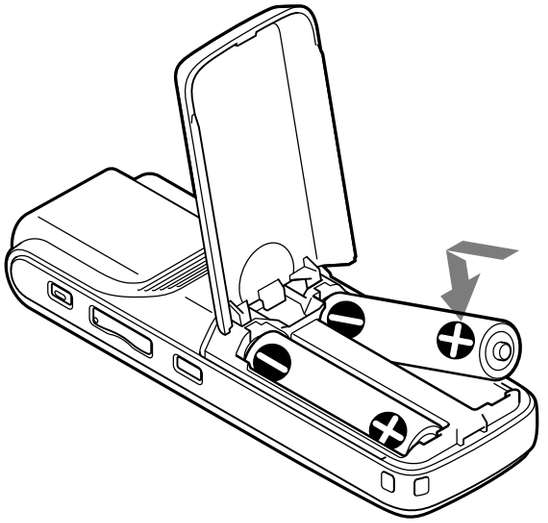
Remove the film on the display window before you use the IC recorder.

Inserting the batteries

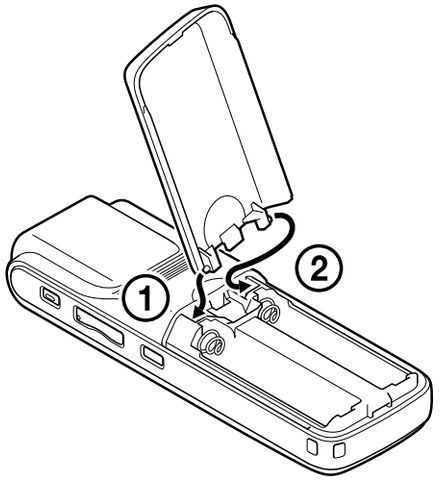
1 Slide and lift the battery compartment lid.



2 Insert LR03 (size AAA) alkaline batteries with correct polarity, and close the lid.



If the battery compartment lid is accidentally detached, attach it as illustrated.



Tips

- When replacing the batteries, messages recorded or alarm settings are not erased even when you remove the batteries.
- When replacing the batteries, the clock continues moving for a certain period of time after you remove the batteries.

Notes

- Do not use manganese batteries for this IC recorder.
- When replacing the batteries, be sure to replace both batteries with new ones.
- Do not charge dry batteries.
- When you are not going to use the IC recorder for a long time, remove the batteries to prevent damage from battery leakage and corrosion.

Clock setting display appears and the year section flashes when you insert batteries for the first time, or when you insert batteries after the IC recorder has been without batteries for a certain period of time. Please refer to "Continued directly from Step 1: Preparing a Power Source" on page 16 to set the date and time.

When replacing the batteries

The battery indicator on the display shows the battery condition.

Battery remain indication

: Replace the old batteries with new ones.

⬇

: "LO BATT" appears and the IC recorder will stop operation.

Battery life*1

When using Sony LR03 (SG) (size AAA) alkaline batteries (with continuos use)

Recording mode	SHQ*3	HQ*4
Recording	Approx. 30 hr.	Approx. 30 hr.
Playback*2 through speaker	Approx. 13 hr.	Approx. 13 hr.
Playback using the headphones	Approx. 32 hr.	Approx. 32 hr.

Recording mode	SP[*5]	LP[*6]
Recording	Approx. 35 hr.	Approx. 48 hr.
Playback[*2] through speaker	Approx. 13 hr.	Approx. 13 hr.
Playback using the headphones	Approx. 32 hr.	Approx. 32 hr.

(hr. : hours)

When using Sony NH-AAA rechargeable batteries (with continuos use)

Recording mode	SHQ[*3]	HQ[*4]
Recording	Approx. 20 hr.	Approx. 20 hr.
Playback[*2] through speaker	Approx. 10 hr.	Approx. 10 hr.
Playback using the headphones	Approx. 25 hr.	Approx. 25 hr.

Recording mode	SP[*5]	LP[*6]
Recording	Approx. 25 hr.	Approx. 35 hr.
Playback[*2] through speaker	Approx. 10 hr.	Approx. 10 hr.
Playback using the headphones	Approx. 25 hr.	Approx. 25 hr.

(hr. : hours)

[*1] The battery life may shorten depending on how you operate the IC recorder.

[*2] When playing back music through the internal speaker with the volume level set to 27

[*3] SHQ : Super high- quality monaural recording mode

[*4] HQ : High-quality monaural recording mode

[*5] SP : Standard play monaural recording mode

[*6] LP : Long play monaural recording mode

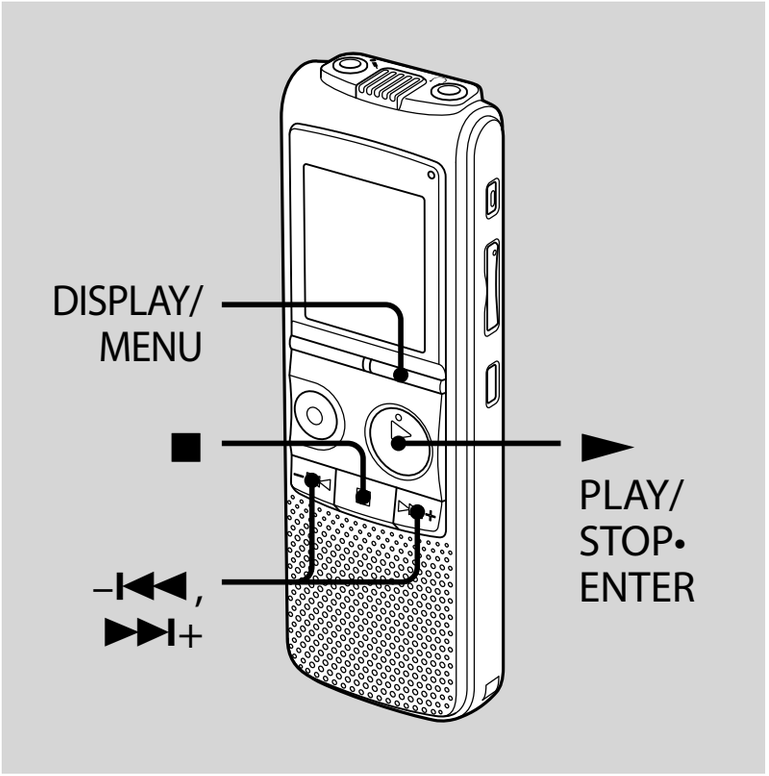
Note while accessing

The IC recorder is accessing data when "ACCESS" appears in the display window or the operation indicator flashes in orange. While the IC recorder is accessing data, do not remove the batteries or connect or disconnect the USB AC adaptor (not supplied). Doing so may damage the data.

Note

If the IC recorder is required to process a large amount of data, the message may be displayed for an extended period of time. This is not a malfunction of the IC recorder.
Wait until the animation disappears before starting operation.

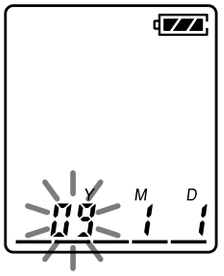
Step 2: Setting the Clock



You need to set the clock to use the alarm function or record the date and time.
Clock setting display appears when you insert batteries for the first time, or when you insert batteries after the IC recorder has been without batteries for a certain period of time the year section flashes in the display window.

Continued directly from “Step 1: Preparing a Power Source”

1 Press –I◄◄ or ►►I+ to set the year, month, day, hour, and minute in sequence, then press ► PLAY/ STOP•ENTER.



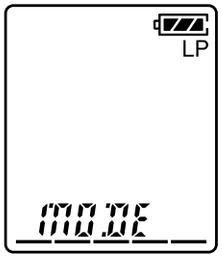
2 Press ■ (stop) to return to the display of the stop mode.

Setting the clock using the menu

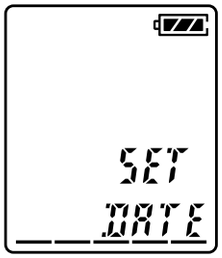
While the IC recorder is in the stop mode, you can set the clock using the menu.

1 Press and hold DISPLAY/MENU to enter the menu mode.

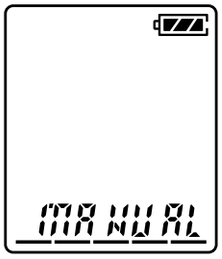
The menu mode will be displayed in the display window.



2 Press –I◄◄ or ►►I+ to select “SET DATE,” then press ► PLAY/ STOP•ENTER.

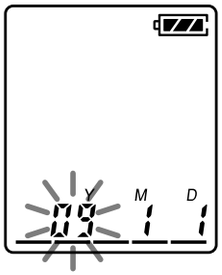


3 Press –I◄◄ or ►►I+ to select "AUTO" or "MANUAL," then press ► PLAY/STOP•ENTER.



When you select "AUTO," the clock is automatically adjusted using the clock in the computer connected to the IC recorder and on which the supplied Digital Voice Editor software is started. When you select "MANUAL," the year section flashes. Proceed to the next steps.

4 Press –I◄◄ or ►►I+ to set the year, month, day, hour, and minute in sequence, then press ► PLAY/STOP•ENTER.



5 Press ■ (stop) to return to the display of the stop mode.

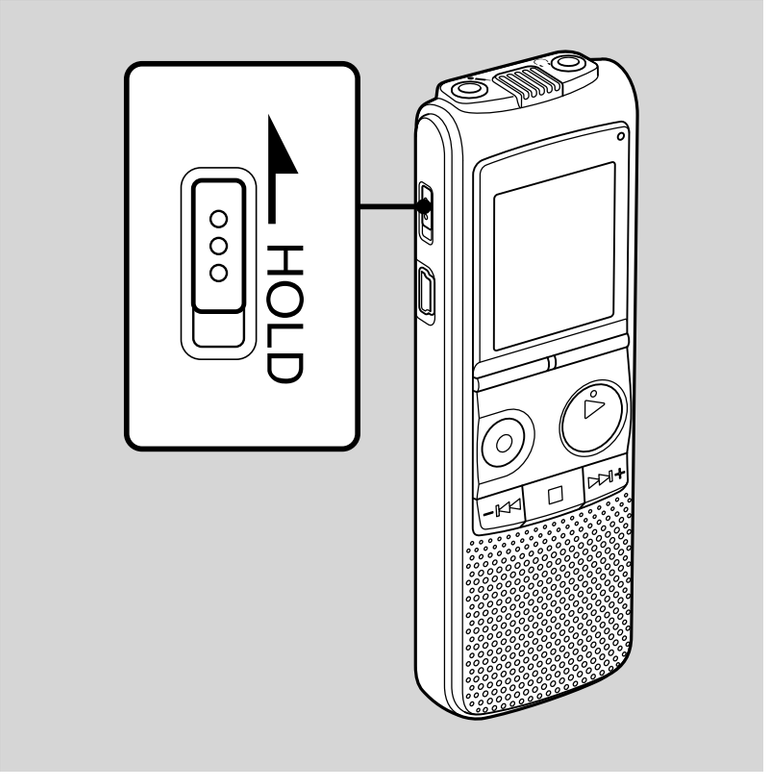
Tips

- Press DISPLAY/MENU to return to the previous operation.
- You can set the time display for the clock to "12H (12-hour display)" or "24H (24-hour display)" in the "HOUR" menu. When "12H (12-hour display)" is set, "AM" or "PM" appears in the display window.

Note

If you do not press ► PLAY/STOP•ENTER within one minute of entering the clock setting data, the clock setting mode is cancelled and the window will return to the display of the stop mode.

Turning the IC Recorder On or Off



When you are not using the IC recorder, you can prevent the batteries from getting weak quickly by turning the power off.

Turning the power off

Slide the HOLD switch in the direction of the arrow in the stop mode. “HOLD” flashes. The IC recorder turns off within a few seconds.

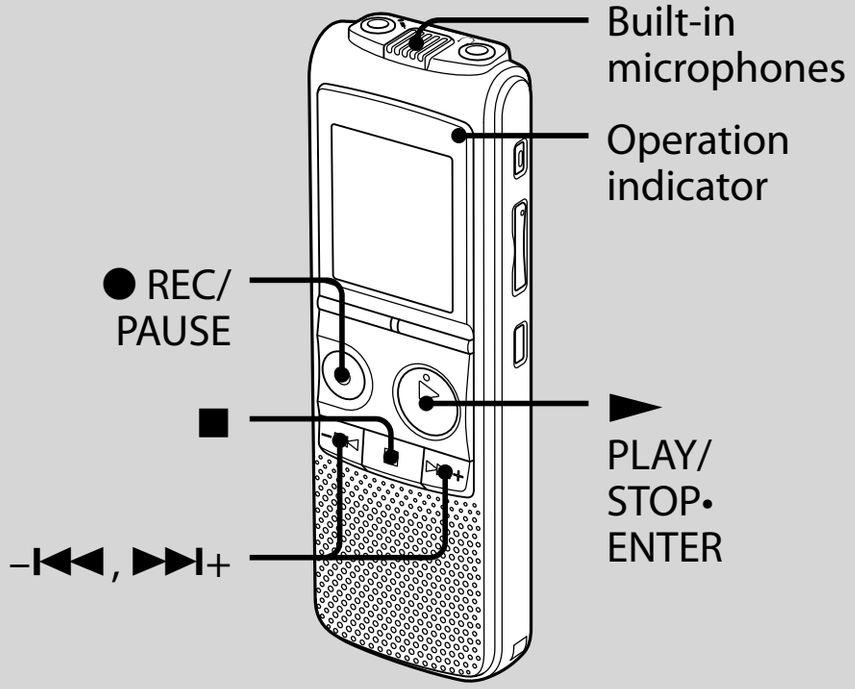
Turning the power on

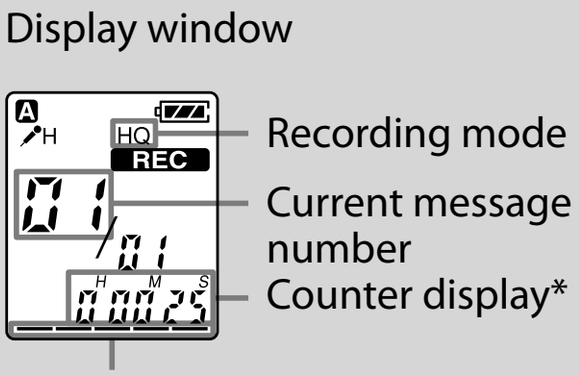
Slide the HOLD switch in the opposite direction from that of the arrow. The IC recorder turnes on.

Tips

- When you are not going to use the IC recorder for a long time, we recommend to turn off the IC recorder.
- When 10 minutes have passed after you have turned on the IC recorder and leave it without doing anything, the display goes off automatically. (Press any button to show the display.)

Recording Messages





* The display selected using the DISPLAY/MENU button appears.

1 Select a folder.

① Press and hold DISPLAY/MENU to enter the menu mode.

② Press –⏮ or ⏭+ to select "FOLDER," then press ► PLAY/ STOP•ENTER.

③ Press –⏮ or ⏭+ to select the folder you want (A, B, C, D, or E), then press ► PLAY/STOP•ENTER.

④ Press ■ (stop) to exit the menu mode.

2 Start recording.

① Press ● REC/PAUSE in the stop mode. The operation indicator lights in red. (When "LED" is set to "OFF" in the menu (page 64), the operation indicator does not light.)
You do not need to press and hold ● REC/PAUSE while recording.
The new message will be automatically recorded after the last recorded message.

② Speak into the built-in microphones.

3 Press ■ (stop) to stop recording.

The IC recorder stops at the beginning of the current recording.

If you do not change the folder after you stop recording, the next time you record you will record in the same folder.

Tips

- Before you start recording, we recommend you make a trial recording first.
- When you purchase the IC recorder, there are 5 folders already available, and you can record up to 99 messages in each folder.
- While recording you can lock all the functions of all the buttons so that you can prevent inadvertent operations by sliding the HOLD switch in the direction of the arrow.

Notes

- While the operation indicator is flashing in orange, do not remove the batteries or connect or disconnect the USB AC adaptor. Doing so may damage the data.
- Noise may be recorded if an object, such as your finger, etc., accidentally rubs or scratches the IC recorder during recording.
- Before making a recording, be sure to check the battery indicator (page 13).
- To avoid replacing batteries during a long recording session, use a USB AC adaptor (not supplied) (page 85).
- The maximum recording time varies if you record messages in mixed recording mode.

To	Do this
pause recording*	Press ● REC/PAUSE. During recording pause, the operation indicator flashes in red and "PAUSE" flashes in the display window.
release pause and resume recording	Press ● REC/PAUSE again. Recording resumes from that point. (To stop recording after pausing recording, press ■ (stop).)
review the current recording instantly	Press ► PLAY/STOP•ENTER. Recording stops and playback starts from the beginning of the message just recorded.
review during recording	Press and hold –⏮ during recording or recording pause. Recording stops and you can search backwards while listening to fast playback sound. After you release –⏮, playback starts from that point.

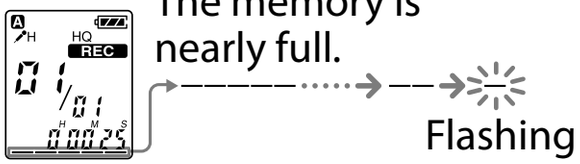
* One hour after you pause recording, recording pause is automatically released and the IC recorder enters the stop mode.

Monitoring the recording

Connect commercially available headphones to the 🎧 (headphone) jack and monitor the recording. You can adjust the monitoring volume by pressing VOL + or –, but the recording level is fixed.

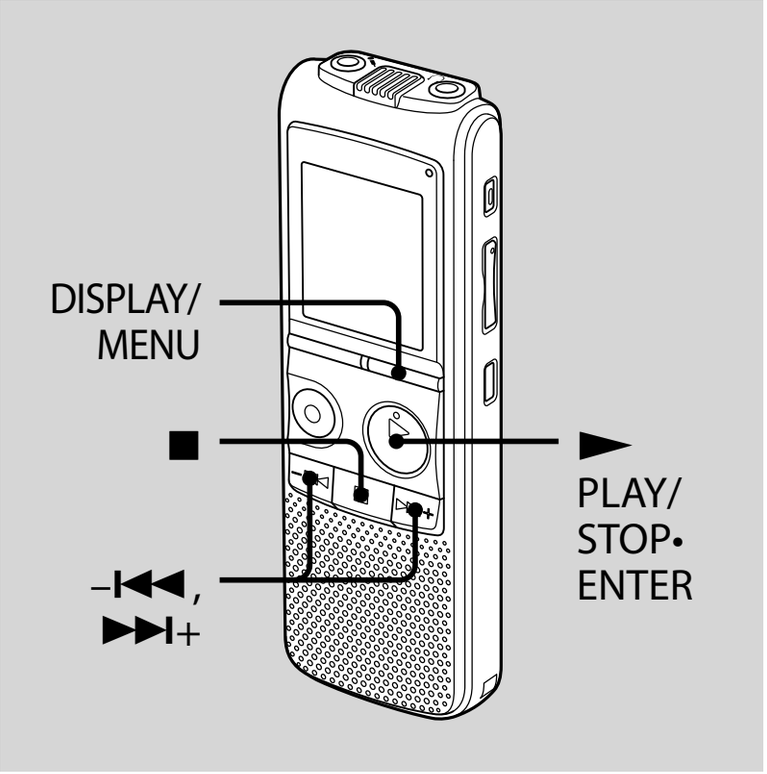
Remaining memory indication

During recording, the remaining memory indicator decreases one by one.



When the remaining time of recording reaches 10 minutes, the last one of the indication flashes.
If the remaining recording time display mode is selected, the remaining recording time display will also flash when the remaining time reaches 1 minute. The display will be changed automatically to the remaining time display.
When the memory is full, recording automatically stops and REC and "FULL" will flash in the display window three times. To continue recording, first erase some of the messages.

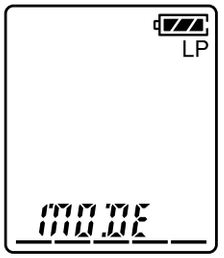
Selecting the Recording Mode



You can select the recording mode in the menu when the IC recorder is stopped. The recording mode is set to "SHQ" when you purchase the IC recorder.

1 Press and hold DISPLAY/MENU to enter the menu mode.

The menu mode window will be displayed.



2 Press –I◄◄ or ►►I+ to select "MODE," then press ► PLAY/STOP•ENTER.

3 Press –I◄◄ or ►►I+ to select "LP," "SP," "HQ," or "SHQ," then press ► PLAY/STOP•ENTER.

LP : Long play monaural recording mode (11.025 kHz/8 kbps)
You can record for a longer time with monaural sound.

SP : Standard play monaural recording mode (44.1 kHz/48 kbps)
You can record with standard quality sound.

HQ : High-quality monaural recording mode (44.1 kHz/128 kbps)
You can record with monaural high-quality sound.

SHQ : Super high-quality monaural recording mode (44.1 kHz/192 kbps)
You can record with monaural super high-quality sound.

4 Press ■ (stop) to exit the menu mode.

To record with better sound quality, select the HQ or SHQ mode.

Note

You cannot set the recording mode while recording.

Maximum recording time

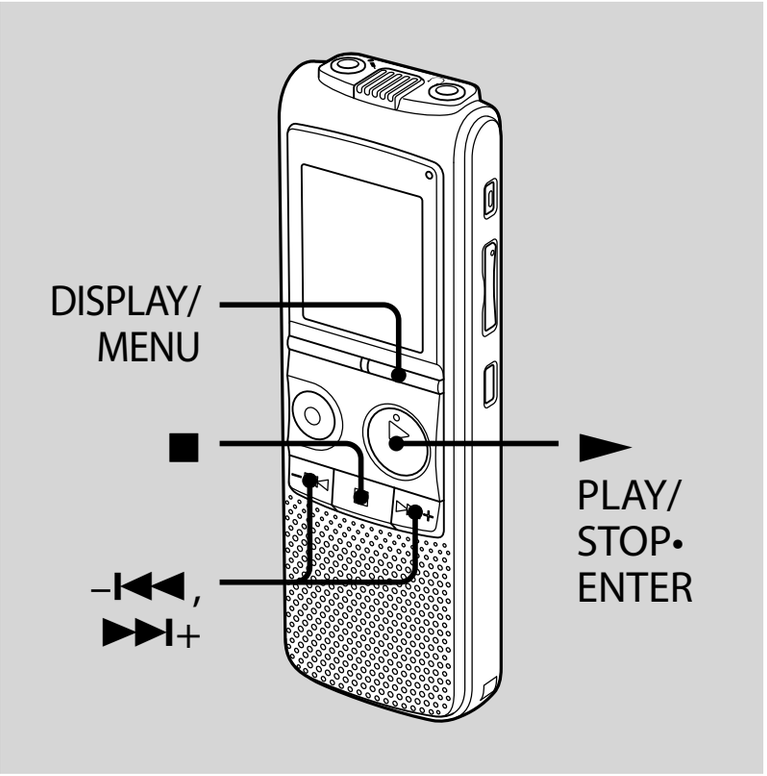
The maximum recording time of all the folders is as follows.

SHQ mode	HQ mode	SP mode
11 hr. 55 min.	17 hr. 55 min.	48 hr.

LP mode
288 hr. 10 min.

(hr. : hours/min. : minutes)

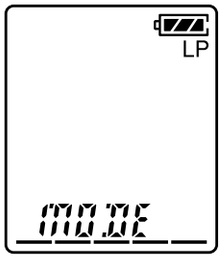
Selecting a Folder



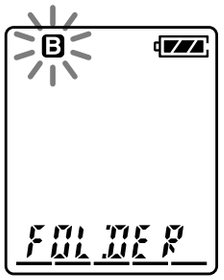
Five folders (**A**, **B**, **C**, **D**, or **E**) have been already made for you when you purchase the IC recorder. Select one of these folders in the menu.

1 Press and hold DISPLAY/MENU to enter the menu mode.

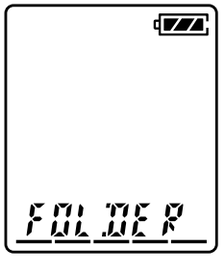
The menu mode window will be displayed.



2 Press –I◀◀ or ▶▶I+ to select "FOLDER," then press ► PLAY/STOP•ENTER.

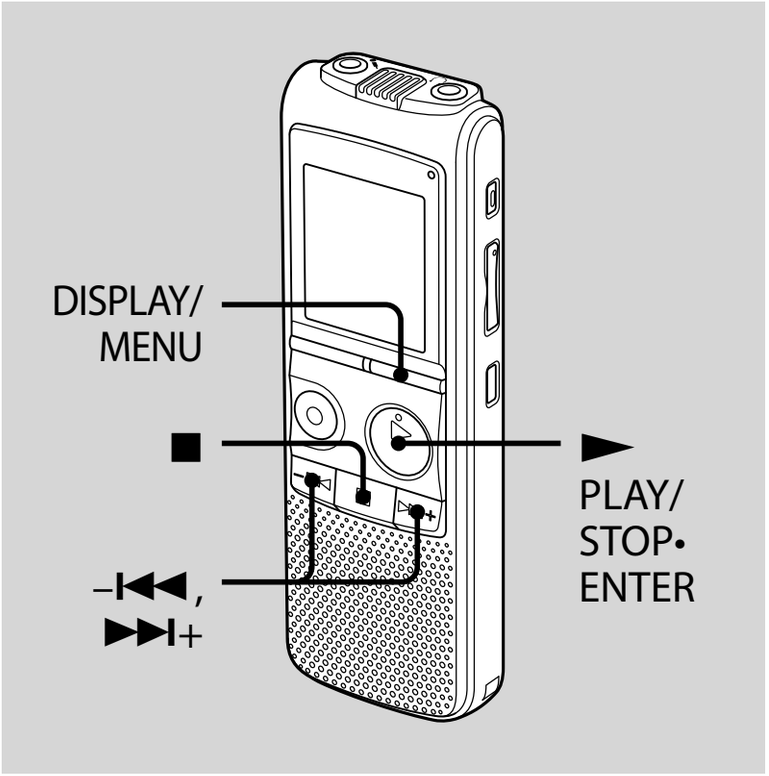


3 **Press –I◄◄ or ►►I+ to select the folder you want (A, B, C, D, or E), then press ► PLAY/STOP•ENTER.**



4 **Press ■ (stop) to exit the menu mode.**

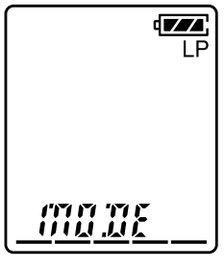
Setting the Microphone Sensitivity



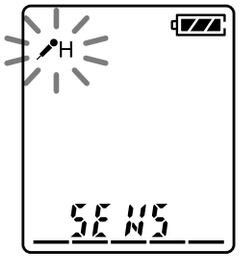
You can set the microphone sensitivity in the menu when the IC recorder is stopped or is recording.
The microphone sensitivity is set to "🎤H" when you purchase the IC recorder.

1 Press and hold DISPLAY/MENU to enter the menu mode.

The menu mode window will be displayed.



2 Press –I◄◄ or ►►I+ to select "SENS," then press ► PLAY/STOP•ENTER.



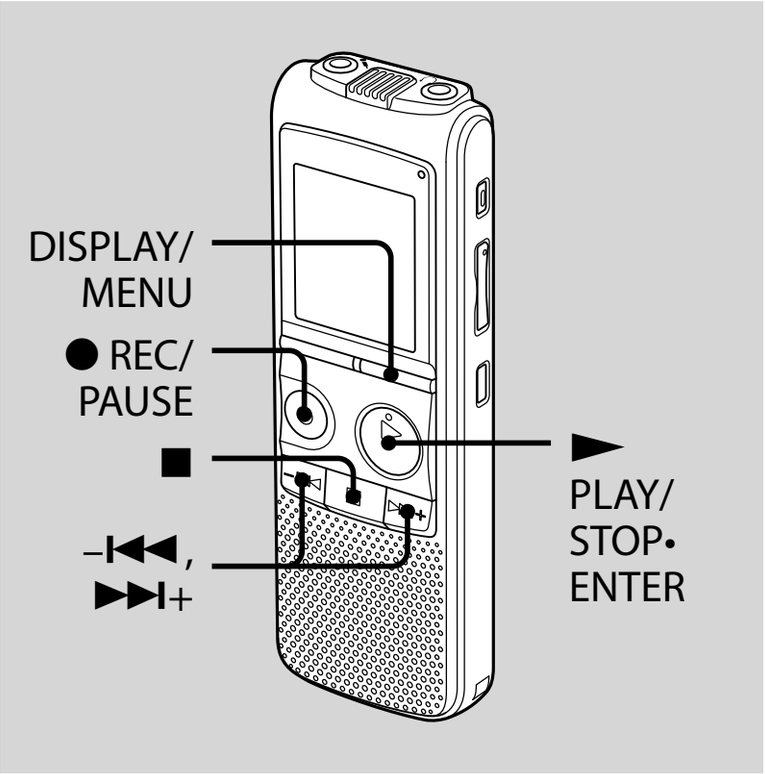
3 Press –I◄◄ or ►►I+ to select "🎤H," or "🎤L," then press ► PLAY/STOP•ENTER.

🎤H: To record at meetings or in a quiet and/or spacious place.

🎤L: To record dictation, or record in a noisy place.

4 Press ■ (stop) to exit the menu mode.

Starting to Record Automatically in Response to Sound – the VOR Function

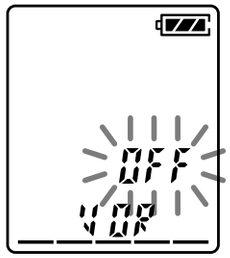


You can set the VOR (Voice Operated Recording) function to "ON," to make the IC recorder start recording when the IC recorder detects sound, and pause when no sound is heard, eliminating recording during soundless periods.
The VOR function is set to "OFF" when you purchase the IC recorder.

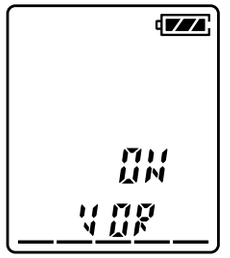
1 Press and hold DISPLAY/MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press –I◀◀ or ▶▶I+ to select "VOR," then press ► PLAY/STOP•ENTER.



3 Press –I◀◀ or ▶▶I+ to select "ON," then press ► PLAY/STOP•ENTER.



4 Press ■ (stop) to exit the menu mode.

5 Press ● REC/PAUSE.

"REC" and "VOR" appear in the display window.

The recording starts when the IC recorder detects sound. The recording pauses when no sound is detected and "VOR" and "PAUSE" flash. When the IC recorder detects sound again, the recording starts again.

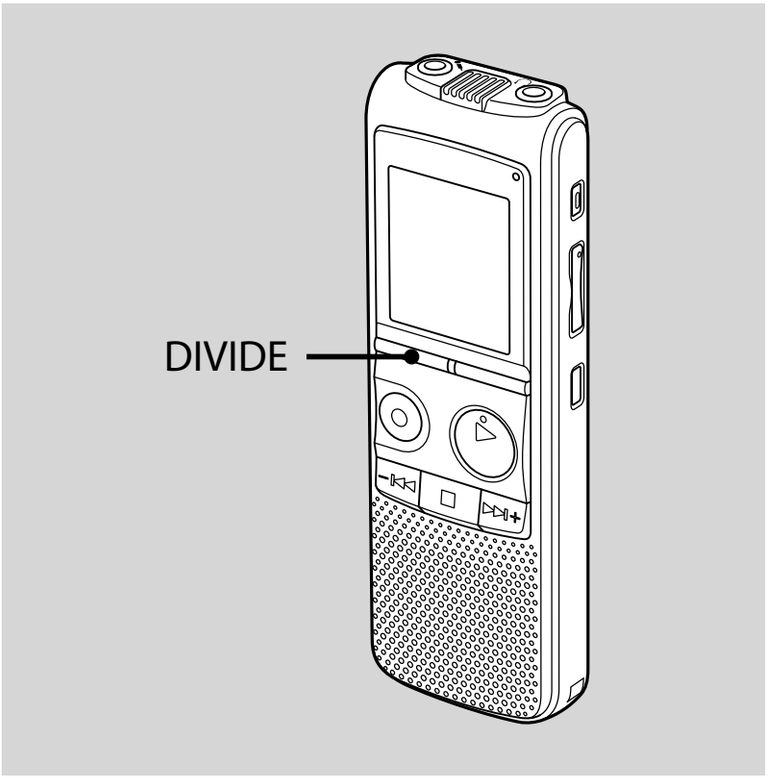
To cancel the VOR function

Set "VOR" to "OFF" in step 3.

Note

The VOR function is affected by the sound around you. Set "SENS" in the menu according to the recording conditions. If recording is not satisfactory after you have changed the microphone sensitivity, or for an important recording, set "VOR" to "OFF" in the menu.

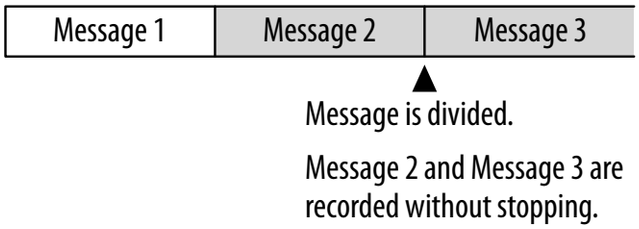
Dividing a Message into Two During Recording



You can divide a message during recording so that the message is divided into two parts, and a new message number is added to the newer part of the divided message.

Press DIVIDE during recording.

"DIVIDE" flashes and the new message number is added at the point you pressed the button. The message will be recorded as two messages, however recording continues without stopping.



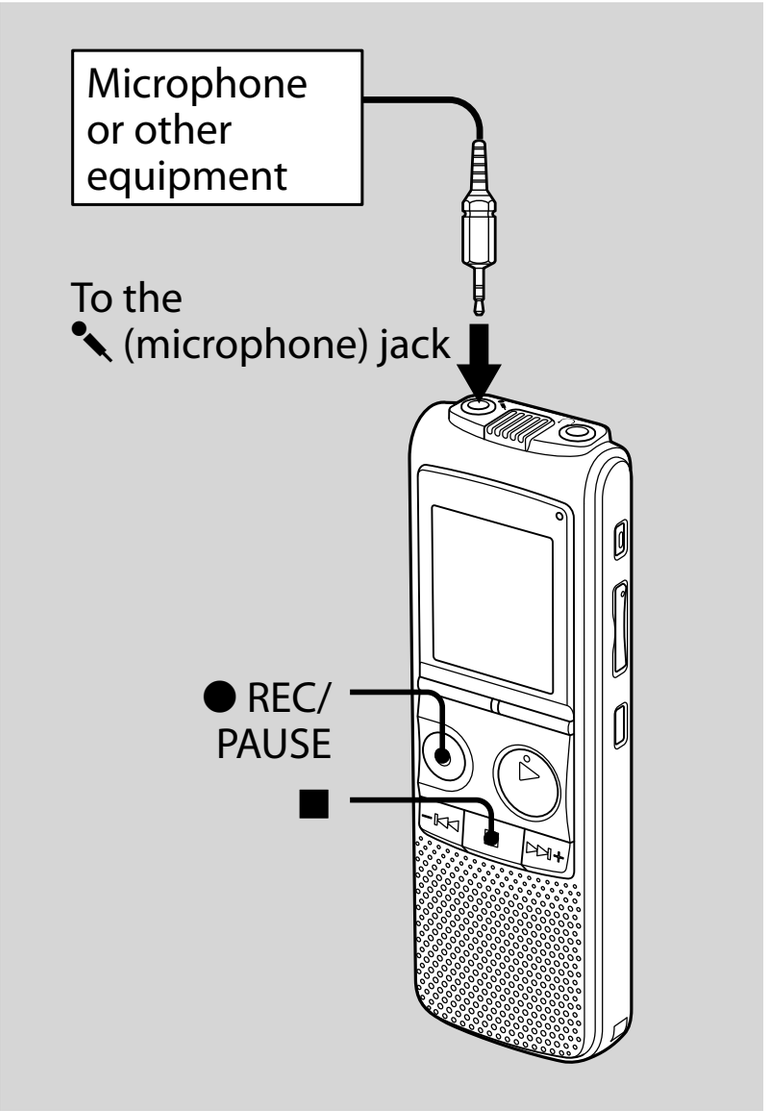
Tip

You can divide the currently recorded message during recording pause.

Notes

- You need a certain amount of free space in the memory to divide a message. For more information, see "System Limitations" on page 84.
- If 99 messages have been recorded in a folder, you cannot divide a message in that folder.
- Once a message is divided, you cannot re-combine the divided messages using the IC recorder. To combine the divided messages, use the supplied application software.
- You cannot divide a message at the very beginning (0.5 seconds from the beginning) of the message.
- When you divide a message into two, at the point of division, the end of the first message and the beginning of the second message may be interrupted.
- If you divide messages too frequently while the IC recorder is recording them, the following phenomenon may occur: The operation indicator keeps flashing, and you cannot operate the IC recorder for a certain period. This is not a malfunction. Wait until the operation indicator goes off.

Recording with an External Microphone or from Other Equipment



1 Connect an external microphone or other equipment to the (microphone) jack when the IC recorder is in the stop mode.

The built-in microphones are automatically cut off.

When a plug in power type microphone is connected, power is automatically supplied to the microphone from the IC recorder.

2 Select a folder in which you want to record messages.

For details, see "Selecting a Folder" (page 24).

3 Start recording by pressing ● REC/ PAUSE.

4 Press ■ (stop) to stop recording.

For details on recording, see "Recording Messages" (page 19).

*** Optional audio connecting cables (not supplied)**

	To the IC recorder	To the other equipment
RK-G139	Stereo mini-plug	Mini-plug (monaural)
RK-G136	Stereo mini-plug	Stereo mini-plug

Notes

- If the input level is not strong enough, connect the headphone jack (minijack, stereo) of other equipment to the (microphone) jack of the IC recorder and adjust the volume level on the equipment connected to the IC recorder.
- Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information.
- When the recording mode is set to "HQ" or "SHQ," and a stereo microphone is used, you can record sound in stereo.

Recommended microphones

You can use the Sony ECM-CS10, ECM-CZ10, ECM-DS70P, ECM-DS30P electret condenser microphone (not supplied).

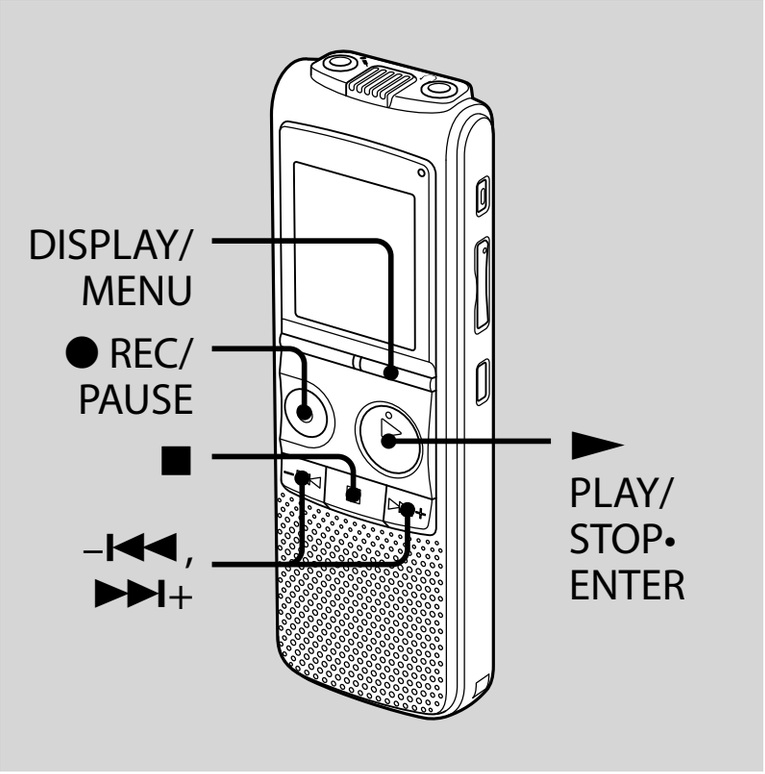
Recording sound from a telephone or a cell phone

You can use the ECM-TL1 headphone-type electret condenser microphone (not supplied) to record sound from a telephone or a cell phone.
For details on how to make the connection, see the operating instructions supplied with the ECM-TL1 microphone.

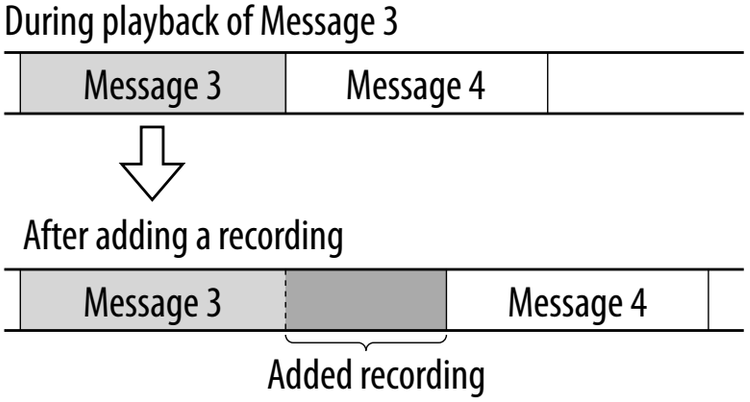
Notes

- After you have made the connection, check the sound quality of the conversation and the recording level before you start recording.
- If the beep of the telephone or a dial tone is recorded, the conversation may be recorded with lower level of sound. In this case, start recording after the conversation has started.
- The VOR function may not work, depending on the kind of telephone or the line condition.
- We assume no responsibility whatsoever for any inconvenience, even if you cannot record a conversation using the IC recorder.

Adding a Recording to a Previously Recorded Message

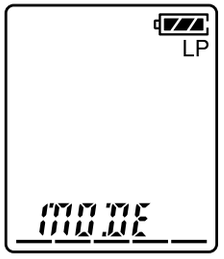


When "REC-OP" in the menu is set to "ADD," you can add a recording to the message being played back. The added recording will be placed after the current message, and will be counted as a part of the message.

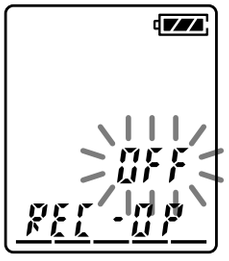


1 Press and hold DISPLAY/MENU to enter the menu mode.

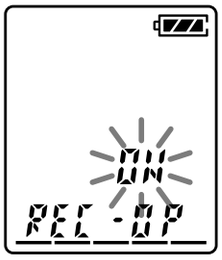
The menu mode window will be displayed.



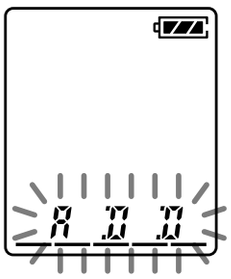
2 Press –I◀◀ or ▶▶I+ to select "REC-OP," then press ► PLAY/STOP•ENTER.



3 Press –I◄◄ or ►►I+ to select "ON," then press ► PLAY/STOP•ENTER.



4 Press –I◄◄ or ►►I+ to select "ADD," then press ► PLAY/STOP•ENTER.



5 Press ■ (stop) to exit the menu mode.

6 When the message to be added is played back, press ● REC/PAUSE.

"REC" and "ADD" will flash and the IC recorder stops in the recording pause mode.

7 While "ADD" flashes, press ● REC/PAUSE again.

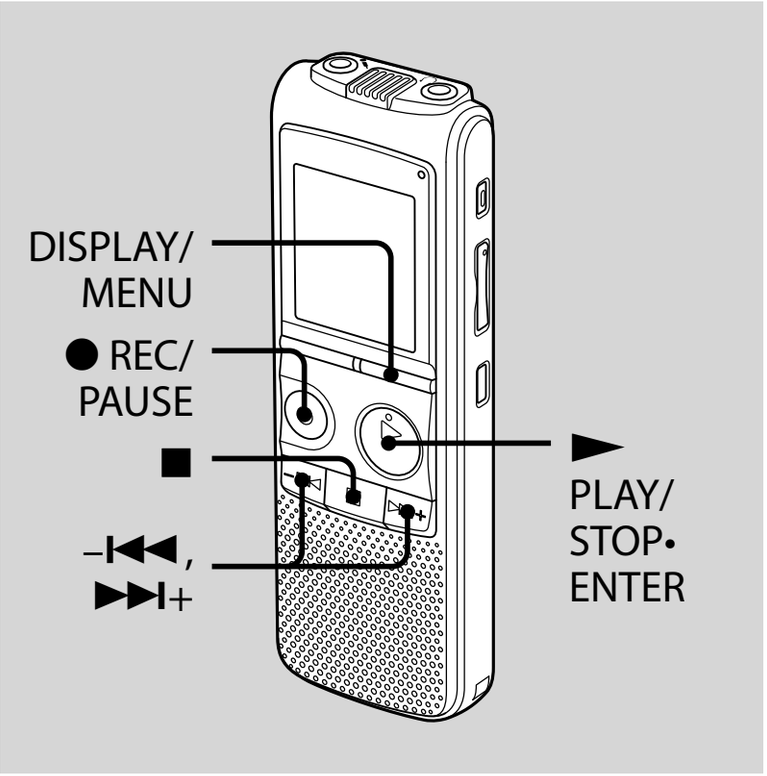
The operation indicator will light in red, and the recording will be added at the end of the current message.

8 Press ■ (stop) to stop recording.

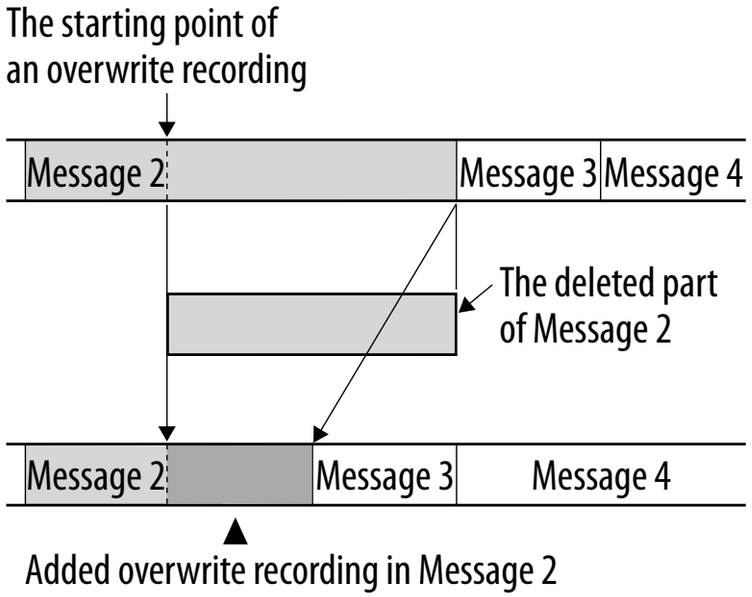
Notes

- You cannot add a recording if the remaining memory is insufficient.
- The added portion of a message will be recorded in the same recording mode.
- If 10 minutes have passed after step 6, you must start the procedure again from the beginning.

Adding an Overwrite Recording during Playback

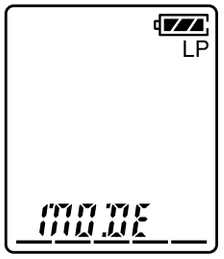


When "REC-OP" in the menu is set to "OVER," you can add an overwrite recording after a selected point in a recorded message. The remainder of the message after the selected point is deleted.

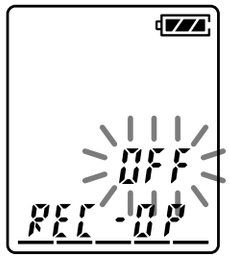


1 Press and hold DISPLAY/MENU to enter the menu mode.

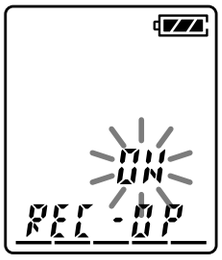
The menu window will be displayed.



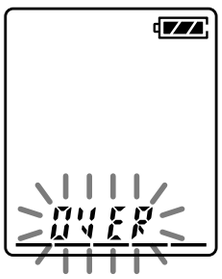
2 Press –I◀◀ or ▶▶I+ to select "REC-OP," then press ► PLAY/ STOP•ENTER.



3 Press –I◄◄ or ►►I+ to select "ON," then press ► PLAY/STOP•ENTER.



4 Press –I◄◄ or ►►I+ to select "OVER," then press ► PLAY/STOP•ENTER.



5 Press ■ (stop) to exit the menu mode.

6 When the message to be overwritten is played back, press ● REC/PAUSE.

"REC" and "OVER" will flash and the IC recorder stops in the recording pause mode.

7 While "OVER" flashes, press ● REC/PAUSE again.

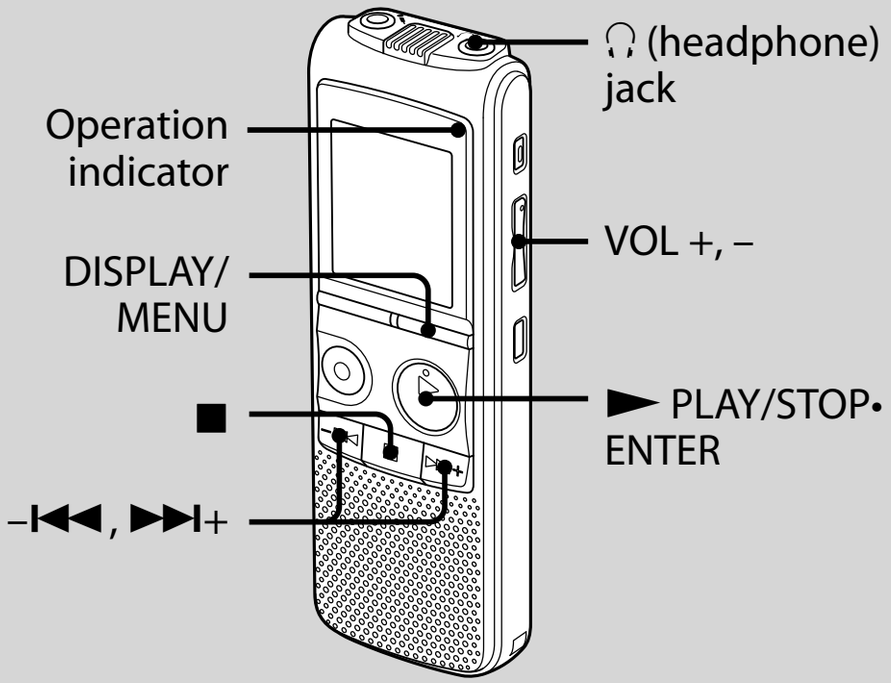
The operation indicator will light in red and recording starts.

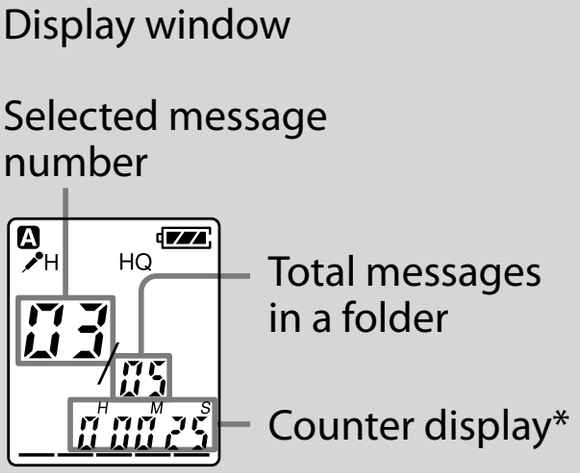
8 Press ■ (stop) to stop recording.

Notes

- You cannot overwrite a recoding if the remaining memory is insufficient.
- The overwritten portion of a message will be recorded in the same recording mode.
- If 10 minutes have passed after step 6, you must start the procedure again from the beginning.

Playing Back Messages





* The display selected using the DISPLAY/MENU button appears.

1 Select a folder.

① Press and hold DISPLAY/MENU to enter the menu mode.

② Press –⏮ or ⏭+ to select "FOLDER," then press ► PLAY/STOP•ENTER.

③ Press –⏮ or ⏭+ to select the folder you want (**A**, **B**, **C**, **D**, or **E**), then press ► PLAY/STOP•ENTER.

④ Press ■ (stop) to exit the menu mode.

2 Press –⏮ or ⏭+ to select the message you want to play.

3 Press ► PLAY/STOP•ENTER to start playback.

The operation indicator lights in green. (When "LED" is set to "OFF" in the menu (page 64), the operation indicator does not light.)

4 Press VOL + or – to adjust the volume.

5 Press ■ (stop) to stop playback.

Tip

During playback you can lock all the functions of all the buttons so that you can prevent inadvertent operations by sliding the HOLD switch in the direction of the arrow.

Listening with better sound quality

- **To listen with the headphones :** Connect a supplied or commercially available headphones to the ∩ (headphone) jack. The built-in speaker will be automatically disconnected.
- **To listen from an external speaker:** Connect an active or passive speaker (not supplied) to the ∩ (headphone) jack.

Quickly locating the point you wish to start playback (Easy Search)

When "EASY-S" is set to "ON" (page 62) in the menu, you can quickly locate the point at which you wish to start playback by pressing –⏮ or ⏭+ repeatedly during playback.
You can go back approx. 3 seconds by pressing –⏮ once, or advance approx. 10 seconds by pressing ⏭+ once. This function is useful for locating a desired point in a long recording.

Searching forward/backward during playback (Cue/Review)

- **To search forward (Cue):** Press and hold ⏭+ during playback and release it at the point you wish to resume playback.
- **To search backward (Review):** Press and hold –⏮ during playback and release it at the point you wish to resume playback.

The IC recorder searches at slow speed with playback sound first. This is useful to check one word forward or back. Then, if you press and hold the button, the IC recorder starts to search at higher speed.

When messages are played back to the end of the last message

- When you play back or fast play back to the end of the last message, "END" flashes up for 5 seconds and the operation indicator lights up in green. (You cannot hear the playback sound.)
- When "END" and the operation indicator go off, the IC recorder will stop at the beginning of the last message.
- If you press and hold –⏮ while "END" is flashing, the messages are played back rapidly, and normal playback will start at the point you release the button.
- If the last message is long and you wish to start playback at a later part of the message, press and hold ⏭+ to go to the end of the message and then press –⏮ while "END" is flashing to go back to the desired point.
- For messages other than the last one, go to the beginning of the next message and play backward to the desired point.

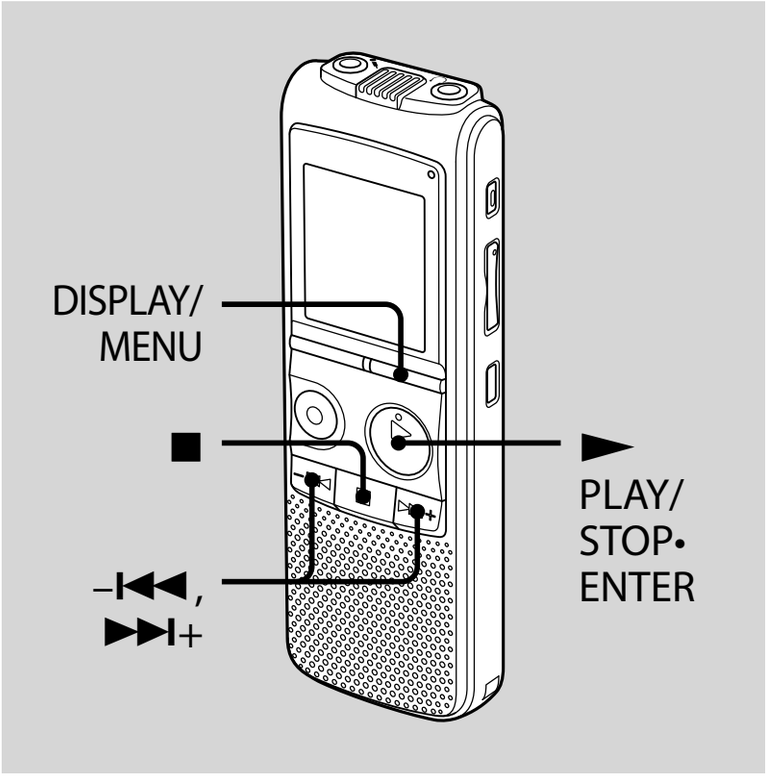
To	Do this
stop at the current position (Playback Pause function)	Press ■ (stop) or ► PLAY/STOP•ENTER. To resume playback from that point, press ► PLAY/STOP•ENTER again.
go back to the beginning of the current message	Press –⏮ once.*
go back to previous messages	Press –⏮ repeatedly. (During stop mode, keep the button pressed to go back the messages continuously.)
skip to the next message	Press ⏭+ once.*
skip to the succeeding messages	Press ⏭+ repeatedly. (During stop mode, keep the button pressed to skip the messages continuously.)

* These operations are for when "EASY-S (Easy Search function)" is set to "OFF" (page 62).

Playing back a message repeatedly

During playback, press and hold ► PLAY/STOP•ENTER until "↻" appears. The selected message will be played back repeatedly.
To resume normal playback, press ► PLAY/STOP•ENTER again.

Playing Back All Messages in a Folder Continuously – the Continuous Play

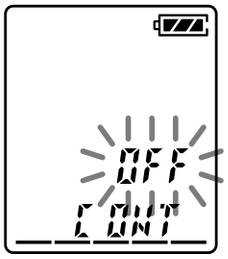


You can select the continuous play mode with CONT in the menu. When you set CONT to "ON," you can play back all messages in a folder continuously.

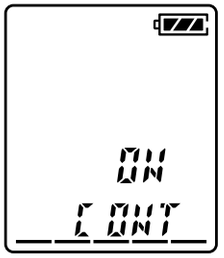
1 Press and hold DISPLAY/MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press –I◄◄ or ►►I+ to select "CONT," then press ► PLAY/STOP•ENTER.

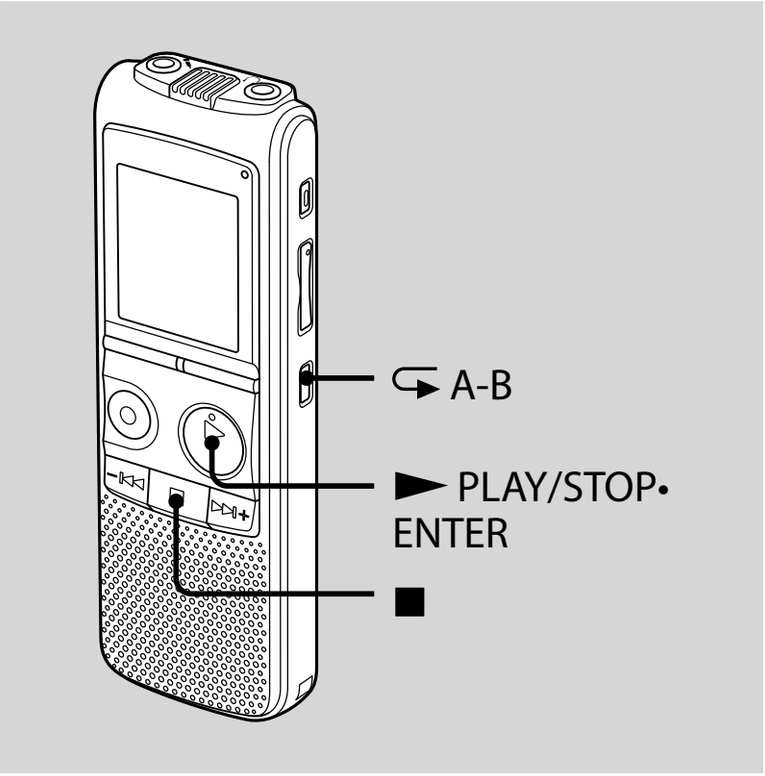


3 Press –I◄◄ or ►►I+ to select "ON," then press ► PLAY/STOP•ENTER.



4 Press ■ (stop) to exit the menu mode.

Playing Back a Specified Section Repeatedly – A-B Repeat



1 During playback, press (repeat) A-B to specify the starting point A.

"A-B B" flashes.

2 Press (repeat) A-B again to specify the finishing point B.

"" and "A-B" are displayed and the specified section is played back repeatedly.

To resume normal playback

Press ► PLAY/STOP•ENTER.

To stop A-B Repeat playback

Press ■ (stop).

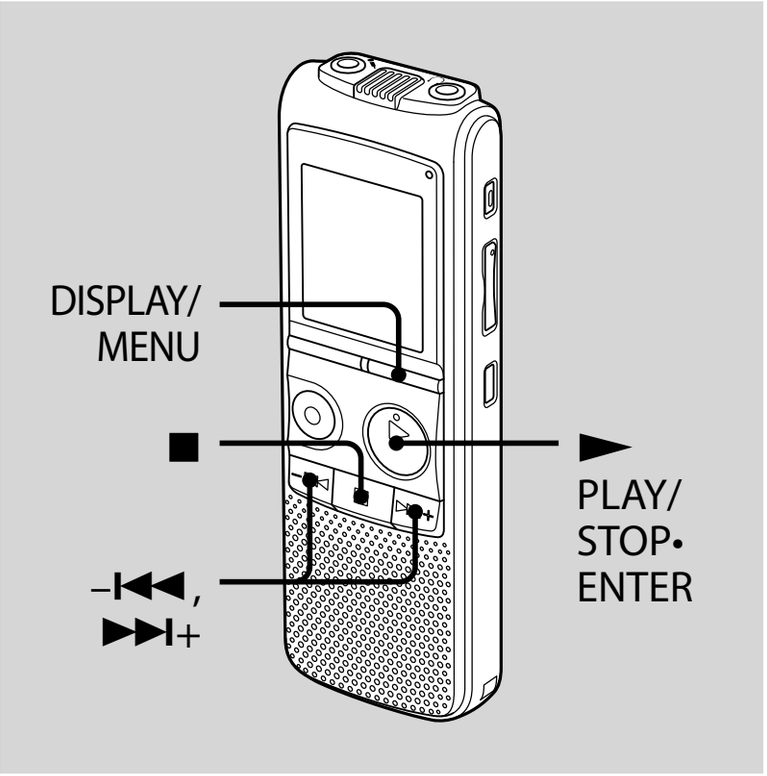
To change the segment specified for A-B Repeat playback

During A-B Repeat playback, press (repeat) A-B again to specify a new starting point A. Then specify a new finishing point B, as in step 2.

Note

You cannot specify the finishing point B before the starting point A that has been set.

Adjusting the Playback Speed – the DPC Function

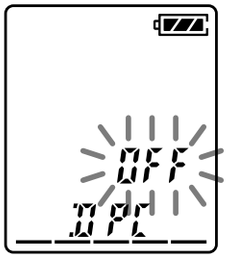


When you set "DPC" to "ON," you can adjust the playback speed between +100% and –50% of normal speed in the menu.
The message is played back in natural tones thanks to the digital processing function.

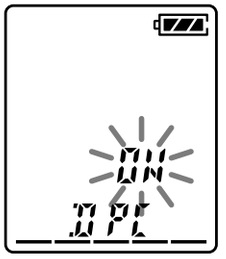
1 Press and hold DISPLAY/MENU to enter the menu mode.

The menu mode window will be displayed.

2 Press –I◄◄ or ►►I+ to select "DPC," then press ► PLAY/STOP•ENTER.

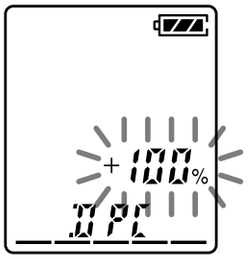


3 Press –I◄◄ or ►►I+ to select "ON," then press ► PLAY/STOP•ENTER.



4 Press –I◄◄ or ►►I+ to adjust the speed of the playback, then press ► PLAY/STOP•ENTER.

You can set the speed by 10% for + setting and by 5% for – setting.

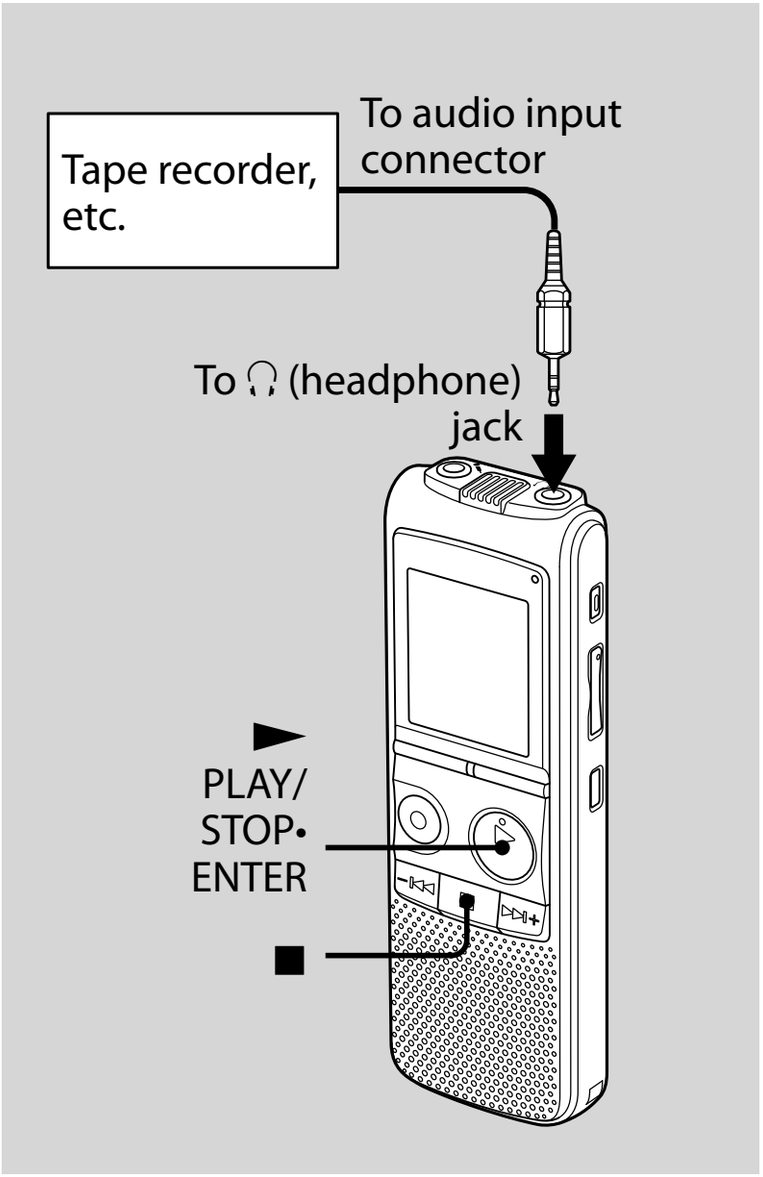


5 Press ■ (stop) to exit the menu mode.

To resume normal playback

Set "DPC" to "OFF" in step 3.

Recording with Other Equipment



To record the sound of the IC recorder with other equipment, connect the 🎧 (headphone) jack of the IC recorder to the audio input connector (minijack, stereo) of other equipment using an audio connecting cable*.

1 Connect the 🎧 (headphone) jack of the IC recorder to the audio input connector (stereo minijack) of other equipment using an audio connecting cable*.

2 Press ► PLAY/STOP•ENTER to start playback and at the same time set the connected equipment to the recording mode.

A message from the IC recorder will be recorded on the equipment connected.

3 Press ■ (stop) on the IC recorder and the connected equipment at the same time to stop recording.

*** Optional audio connecting cables (not supplied)**

	To the IC recorder	To the other equipment
RK-G139	Stereo mini-plug	Mini-plug (monaural)
RK-G136	Stereo mini-plug	Stereo mini-plug

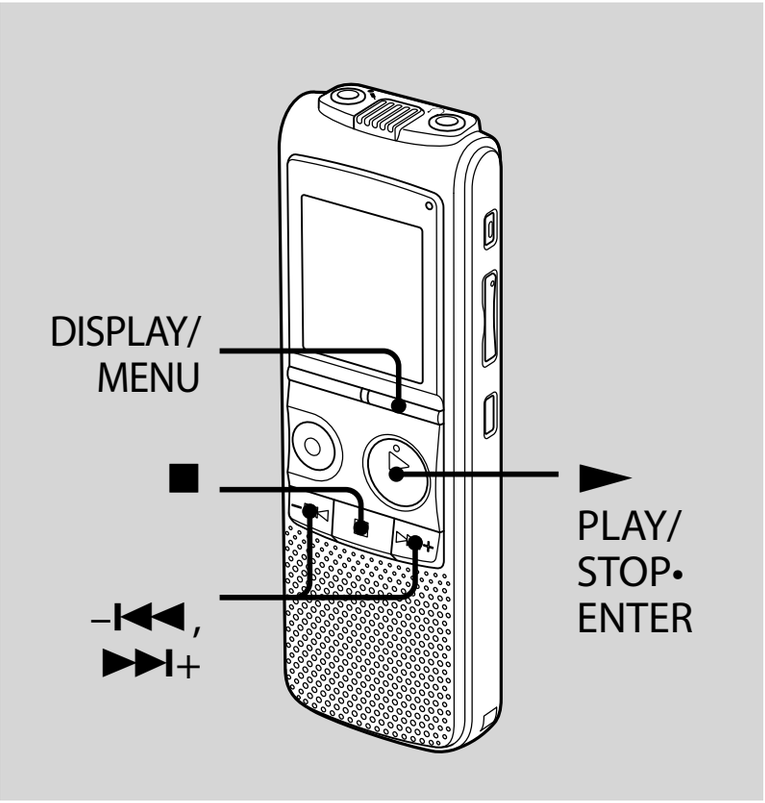
Note

Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information.

Tip

Before you start recording, we recommend you to make trial recording first.

Playing Back a Message at a Desired Time with an Alarm



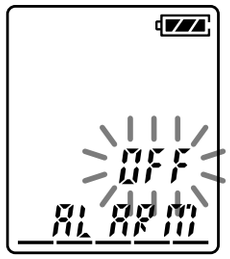
You can sound an alarm and start playback of a selected message at a desired time.
You can have the message played back on a specified date, once every week, or at the same time every day.

1 Select the message you want to play back with an alarm.

2 Enter the alarm setting mode.

① Press and hold DISPLAY/MENU to enter the menu mode.
The menu mode window will be displayed.

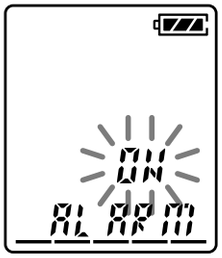
② Press –⏮ or ⏭+ to select "ALARM," then press ► PLAY/STOP•ENTER.
(If the alarm has already set to the selected message, "ALARM ON" is displayed. If you do not wish to change the setting, press ■ (stop) and exit the menu mode.)



Note

"ALARM OFF (or ON)" will not appear and the alarm cannot be set if the clock has not been set or no message has been recorded in the selected folder.

③ Press –⏮ or ⏭+ to select "ON," then press ► PLAY/STOP•ENTER.

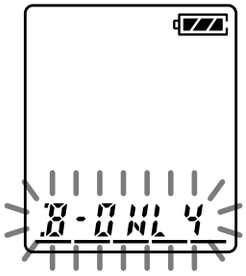


3 Set the alarm date and time.

① Press –⏮ or ⏭+ to select "DATE," a day of the week, or "DAILY," then press ► PLAY/STOP•ENTER.

② **When you select "DATE":**
Set the year, month, day, hour, and minute in sequence, as described in "Step 2: Setting the Clock" on page 16, then press ► PLAY/STOP•ENTER.
When you select a day of the week or "DAILY":
Press –⏮ or ⏭+ to set the hour, then press ► PLAY/STOP•ENTER, press –⏮ or ⏭+ to set the minute, then press ► PLAY/STOP•ENTER.

4 Press –⏮ or ⏭+ to select the alarm sound either from "B-ONLY" or "B-PLAY," then press ► PLAY/STOP•ENTER.



B-ONLY: Only the alarm will sound.
B-PLAY: The selected message will be played back after the alarm.
"ALARM ON" will be displayed.

5 Press ■ (stop) to exit the menu mode.

The setting process is finished and "((•))" (alarm indicator) appears in the display window.

When the set date and time comes

At the set time, the alarm will sound for about 10 seconds and the selected message will be played back. (If you have selected "B-ONLY," only the alarm will sound.)
During playback, "ALARM" will flash in the display window.
When the playback ends, the IC recorder will stop automatically at the beginning of that message.

To listen to the same message again

Press ► PLAY/STOP•ENTER, and the same message will be played back from the beginning.

To stop the alarm before the playback starts

Press ■ (stop) while the alarm sound is heard. You can stop the alarm playback even when the HOLD function is activated.

To change the alarm setting

Start from step 2 on page 45.

To cancel the alarm setting

Follow steps 1 and 2-③ on page 46. In step 2-③, press –⏮ or ⏭+ to select "OFF," and press ► PLAY/STOP•ENTER. The alarm will be cancelled, and the alarm indicator will disappear from the display window.

Notes

- When the clock has not been set or no messages are recorded, you cannot set the alarm.
- The alarm sounds even if you set "BEEP" to "OFF" in the menu (page 64).
- If you try to set the alarm to play back a message at a previously set time on another message, "PRE SET" will be displayed, preventing new settings.
- If the alarm time comes while another message is being played back with an alarm, the playback stops and the new message will be played back.
- If the alarm time comes during recording, alarm will sound for 10 seconds after the recording is finished and playback begins. "((•))" will flash when the alarm time comes.
- If more than one alarm time comes during recording, only the first message will be played back.
- If you delete a message on which you have set an alarm, that alarm will be also cancelled.
- If the alarm time comes during erasing operation, alarm will sound for 10 seconds after the erasing is finished and playback begins.
- If the alarm time comes while you are updating the data, the alarm setting will be cancelled automatically.

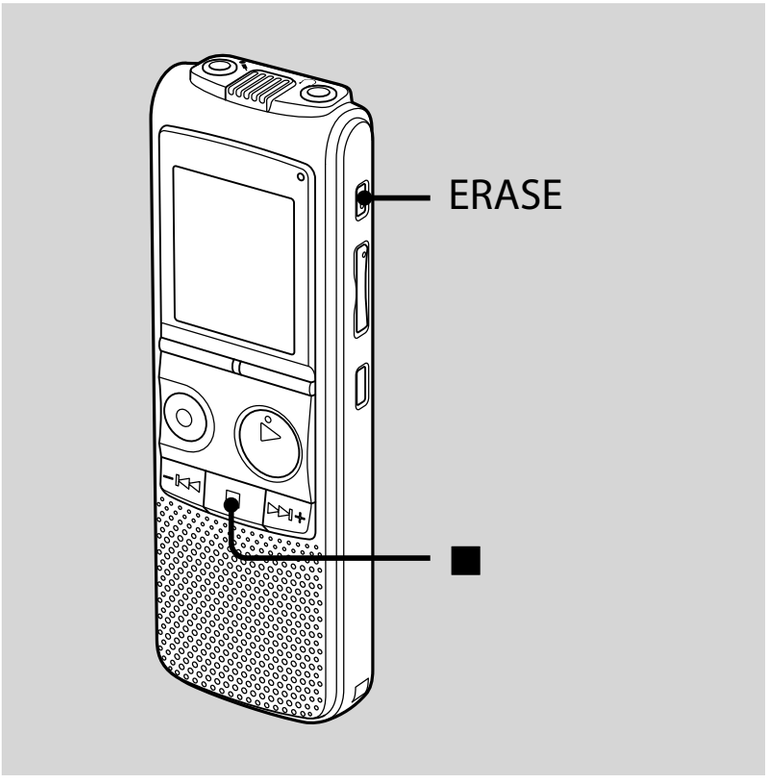
Erasing Messages

You can erase the recorded messages one by one or all messages in a folder at a time.

Notes

- Once a recording has been erased, you cannot retrieve it.
- If the message you want to erase is locked in the menu, the message is not erased.

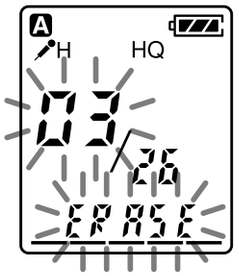
Erasing messages one by one



You can erase unwanted messages, retaining all other messages when the IC recorder is in the stop or playback mode. When a message is erased, the remaining messages will advance and be renumbered so that there will be no space between messages.

1 Press ERASE while you are playing back the message you want to erase or press and hold ERASE during the stop mode.

A beep will sound and the message number and "ERASE" will flash.



2 Press ERASE again.

The message is erased and the remaining messages will be renumbered. (For example, if you erase Message 3, Message 4 will be renumbered as Message 3. When erasing is completed, the unit will stop at the beginning of the following message.)

To cancel erasing

Press ■ (stop) before step 2.

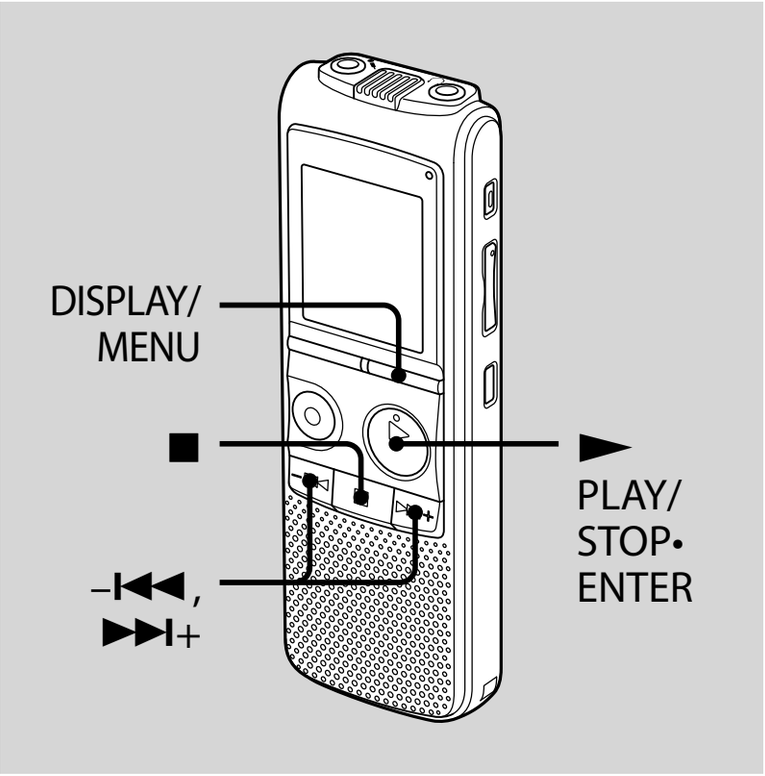
To erase another message

Proceed with the same steps again from the beginning.

To erase a part of one message

Divide the message into two messages first, then proceed with the same steps from the beginning.

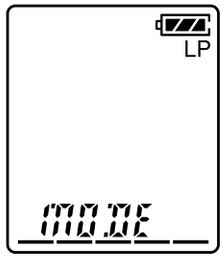
Erasing all messages in a folder



1 Select the folder containing the messages you want to erase when the IC recorder is in the stop mode.

2 Press and hold DISPLAY/MENU to enter the menu mode.

The menu mode window will be displayed.



3 Press –I◀◀ or ▶▶I+ to select "ALL ERASE," then press ► PLAY/ STOP•ENTER.

4 Press ► PLAY/STOP•ENTER while "ALL ERASE" is flashing.

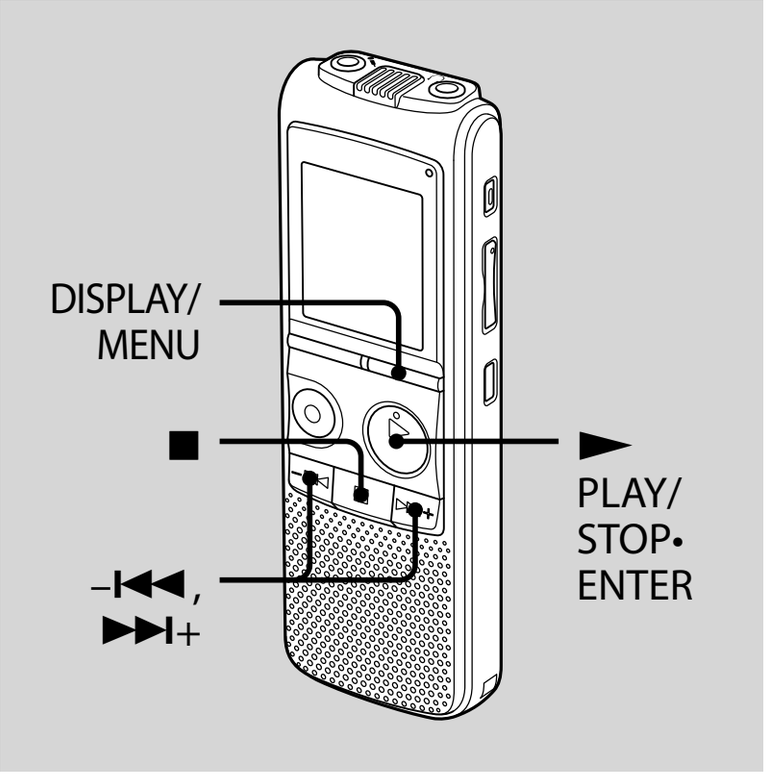
All messages in the selected folder will be erased.

5 Press ■ (stop) to exit the menu mode.

To cancel erasing

Press ■ (stop) before step 3.

Moving a Message to a Different Folder

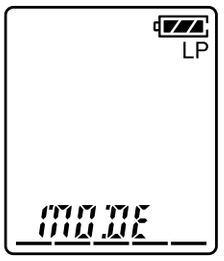


You can move the recorded messages to another folder.

1 Select the message you want to move.

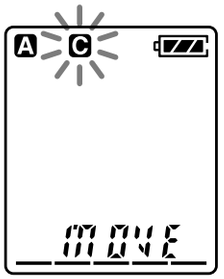
2 Press and hold DISPLAY/MENU to enter the menu mode.

The menu mode window will be displayed.



3 Press –I◀◀ or ▶▶I+ to select "MOVE," then press ► PLAY/STOP•ENTER.

The destination folder indicator flashes.



4 Press –I◄◄ or ►►I+ to select the folder that you want to move the message into, then press ► PLAY/STOP•ENTER.

The message is moved to the last position in the destination folder.

When you move a message to another folder, the original message in the previous folder will be deleted.

5 Press ■ (stop) to exit the menu mode.

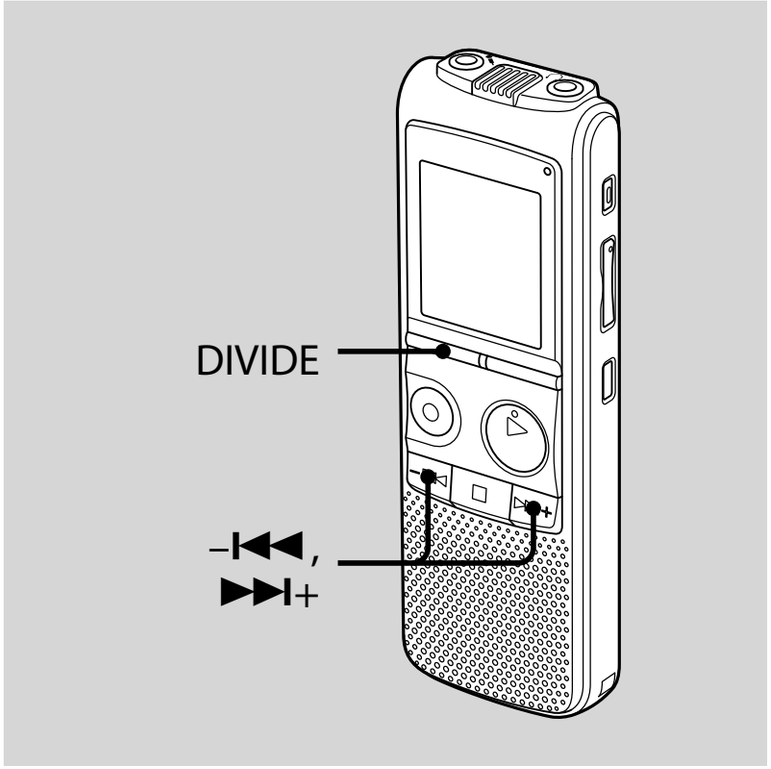
Note

If 99 messages have been recorded in the folder to which you want to move a message, you cannot move it.

To cancel moving the message

Press ■ (stop) before step 4.

Dividing a Message into Two



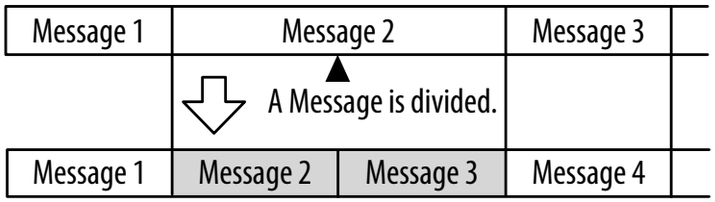
You can divide a message during playback, so that the message is divided into two parts and a new message number is added to the newer part of the divided message. By dividing a message, you can easily find the point from which you want to play back when you make a long recording such as at a meeting. You can divide a message until the total number of messages in the folder reaches 99.

1 Press DIVIDE while you are playing back the message you want to divide.

The current message number and "DIVIDE" flash.

2 Press DIVIDE.

A new number is added to the newer part of the divided message, and the message numbers of the following messages will be incremeted by one.



The message numbers are incremeted.

To cancel dividing the message

Press ■ (stop) before step 1.

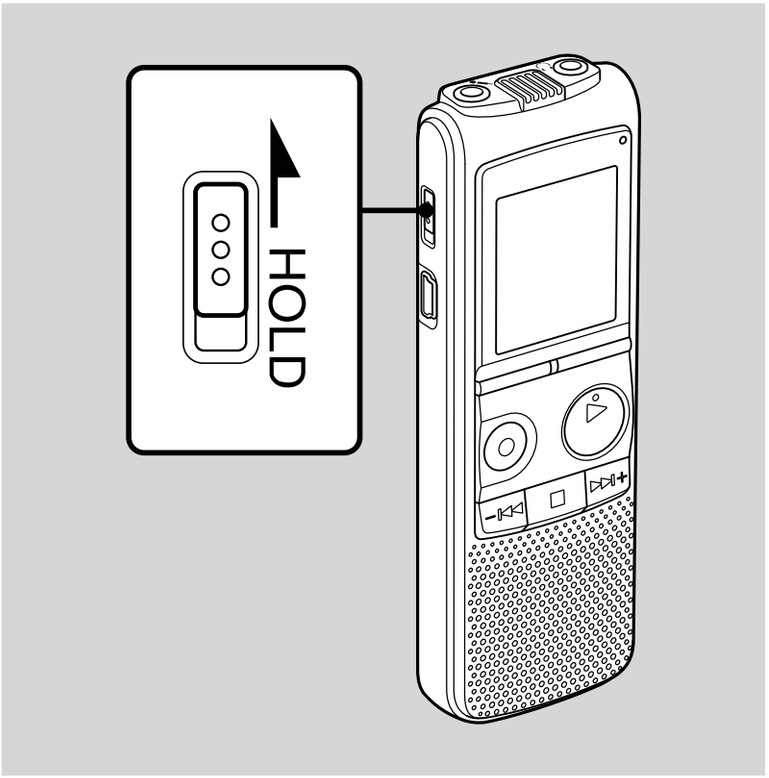
Notes

- You need a certain amount of free space in the memory to divide a message. For more information, see "System Limitations" on page 84.
- If 99 messages have been recorded in a folder, you cannot divide a message. In that case, reduce the number of messages to 98 or less by erasing unnecessary messages or by moving some of the messages to another folder before dividing a message.
- When you divide a message with a title and artist name, the newer part has the same title, artist name, and file name.
- Once a message is divided, you cannot re-combine divided messages using the IC recorder. To combine the divided messages, use the supplied application software.
- If you divide a message frequently, the unit may become unable to divide the message further.
- If you divide a message with an alarm setting, the same alarm setting remains only with the former message divided.
- You cannot divide a message at the very beginning (0.5 seconds from the beginning) or at the very end (0.5 seconds prior to the end) of the message.
- If you divide a message during A-B repeat playback or one message repeat playback, the repeat setting will be cancelled.
- If more than 10 seconds have passed after step 1, you must start the procedure again from the beginning.

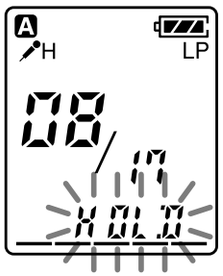
To play the divided message

Press –⏮ or ⏭+ to display the message number, as the divided messages now each have message numbers.

Preventing Accidental Operation – the HOLD Function



To prevent accidental operation, slide the HOLD switch in the direction of arrow in the recording or playback mode.
"HOLD" will appear indicating that all the functions of the buttons are locked.



To cancel the HOLD function

Slide the HOLD switch in the opposite direction from that of the arrow.

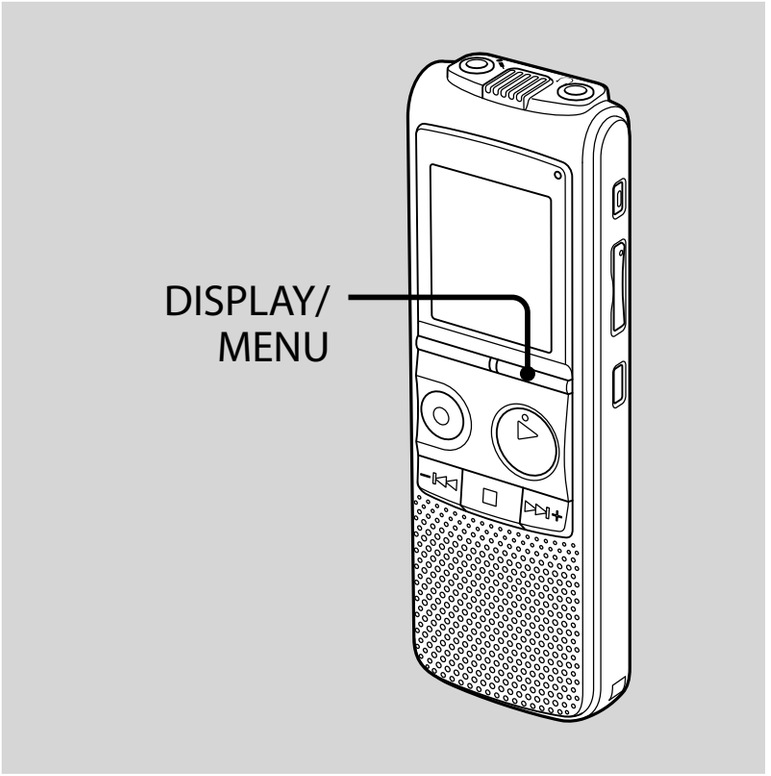
Note

When the HOLD function is activated during recording, cancel the HOLD function first to stop recording.

Tip

Even if the HOLD function is activated, you can stop the alarm playback. To stop the alarm or playback, press ■ (stop).

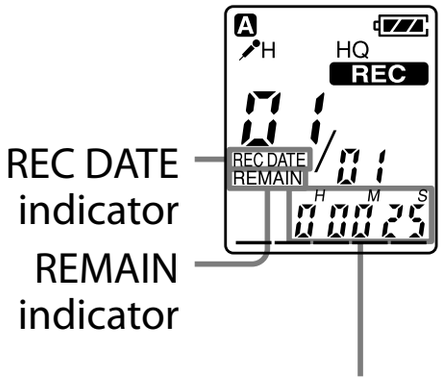
Selecting the Display



When the IC recorder is in the recording/ recording pause, stop, or playback modes, you can select elapsed time, remaining time (REMAIN), recorded date (REC DATE), or recorded time (REC DATE) to be displayed in the display window.

Press DISPLAY/MENU.

Each time you press DISPLAY/MENU, the display will change as shown below.



Elapsed time → Remaining time with the REMAIN indicator → Recorded date with the REC DATE indicator* → Recorded time with the REC DATE indicator → Elapsed time …**

* If the clock has not been set, "- -Y- -M- -D" will be displayed.

** If the clock has not been set, "- -:- -" will be displayed.

While the IC recorder is in the recording/recording pause mode

Elapsed time: Displays the recording time of the current message.

Remaining time: Displays the remaining recording time of the IC recorder.

Recorded date: Displays the date when the IC recorder started recording the current message.

Recorded time: Displays the time when the IC recorder started recording the current message.

While the IC recorder is in the playback/stop mode

Elapsed time: Displays the elapsed playback time of the current message.

Remaining time: Displays the remaining time of the current message when the IC recorder is in the playback mode. Displays the remaining recording time when the IC recorder is in the stop mode.

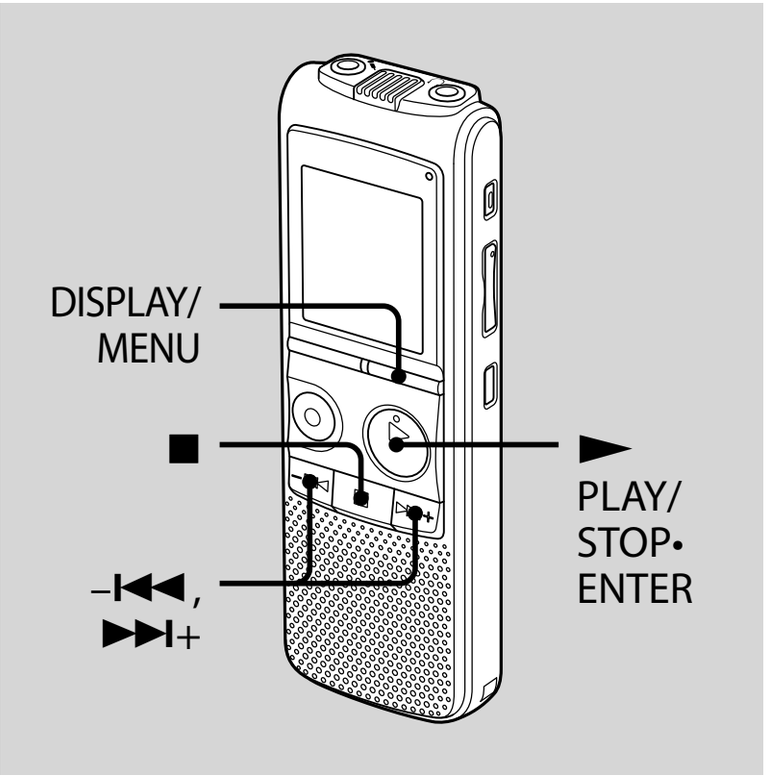
Recorded date: Displays the date when the current message was recorded.

Recorded time: Displays the time when the current message was recorded.

Notes

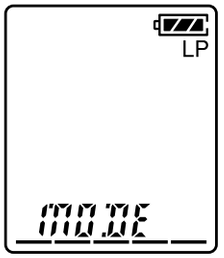
- If the remaining recording time is less than 1 minute, the display will change automatically to the remaining time display and the display will flash.
- If the IC recorder is left unoperated for more than 3 seconds in the stop mode, the display will return to the current time, regardless of the display setting.

Making Settings for the Menu

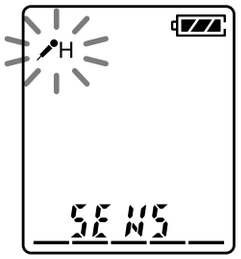


1 Press and hold DISPLAY/MENU to enter the menu mode.

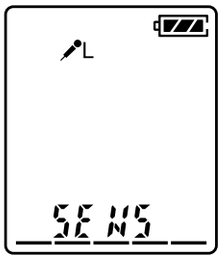
The menu mode window will be displayed.



2 Press –I◄◄ or ►►I+ to select the menu item for which you want to make setting, then press ► PLAY/STOP•ENTER.



3 Press –I◄◄ or ►►I+ to select the setting that you want to set, then press ► PLAY/STOP•ENTER.



4 Press ■ (stop) to exit the menu mode.

Note

If you do not press any button for one minute, the menu mode is automatically cancelled and the window will return to the display of the stop mode.

To return to the previous window

Press DISPLAY/MENU during menu mode.

Menu settings

Menu items	Settings	Operation mode (○ : the setting can be made/ — : the setting cannot be made)		
		Stop mode	Playback mode	Recording mode
MODE	LP, SP, HQ, SHQ	○	—	—
SENS	🎤H, 🎤L	○	—	○
VOR	ON, OFF	○	—	○
LOCK	ON, OFF	○	—	—
DPC	ON (–50% to +100%), OFF	○	○	—
EASY-S	ON, OFF	○	○	—
CONT	ON, OFF	○	○	—
REC-OP	ON (ADD, OVER), OFF	○	—	—
SET DATE		○	—	—
HOUR	12H, 24H	○	—	—
BEEP	ON, OFF	○	—	—
LED	ON, OFF	○	—	—
ALL ERASE		○	—	—
MOVE		○	—	—
ALARM	ON (DATE, SUN, MON, TUE, WED, THU, FRI, SAT, DAILY), OFF	○	—	—
FOLDER	A, B, C, D, E	○	—	—

Menu items	Settings (*: Initial setting)	See page
MODE	**Sets the recording mode.** LP: Long play monaural recording mode. SP: Standard play monaural recording mode. HQ: High-quality monaural recording mode. SHQ*: Super high-quality monaural recording mode.	22
SENS	**Sets the microphone sensitivity.** H*: To record at meeting or in a quiet and/or spacious place. L: To record dictation, or record in a noisy place.	25
VOR	**Sets the VOR (Voice Operated Recording) function.** ON: Recording starts when the IC recorder detects sound and pauses when no sound is heard, eliminating recording during soundless periods. The VOR function is activated when ● REC/PAUSE is pressed. OFF*: The VOR function does not work.	27
LOCK	**Locks the message so that you cannot erase it, add a new message to it, add an overwritten message to it, or divide it.** ON: The lock function is activated. OFF*: The lock function is cancelled.	–

Menu items	Settings (*: Initial setting)	See page
DPC	**Sets the DPC (Digital Pitch Control) function.** ON: You can adjust the speed of the playback in a range from +100% to –50%, by 10% increments for the + setting and by 5% increments for the – setting. –30%* OFF*: The DPC function is cancelled.	42
EASY-S	**Sets the easy search function.** ON: You can go forward for about 10 seconds by pressing ⏭+ and go back for about 3 seconds by pressing –⏮. This function is useful when attempting to locate desired point in a long recording. OFF*: The easy search function does not work. When you press –⏮ or ⏭+, a message will be moved forward or backward.	37
CONT	**Plays back the messages in the selected folder continuously.** ON: The CONT function is activated. OFF*: A message is played back and the IC recorder stops at the beginning of the next message.	39

Menu items	Settings (*: Initial setting)	See page
REC-OP	**Adds a recording to a previously recorded message or adds an overwrite recording during playback.** ON: You can add a recording or overwrite a recording. ADD*: You can add a recording. OVER: You can overwrite a recording. OFF*: You cannot add a recording or overwrite a recording.	32, 34
SET DATE	**Sets the clock.** AUTO*: When the IC recorder is connected to a computer that is running the Digital Voice Editor, the clock will be automatically adjusted according to that computer. MANUAL: You can set the clock manually by setting year, month, day, hour, and minute in sequence.	15
HOUR	**Sets the clock display.** 12H: AM12:00 = midnight, PM12:00 = noon 24H*: 0:00 = midnight, 12:00 = noon	17

Menu items	Settings (*: Initial setting)	See page
BEEP	**Sets whether a beep will be heard or not.** ON*: A beep will sound to indicate that an operation has been accepted. OFF: No beep sound will be heard. **Note** The alarm sounds even if you set "BEEP" to "OFF" in the menu.	–
LED	**Turns the operation indicator on or off during operation.** ON*: During recording or playback, the operation indicator lights or flashes. OFF: The operation indicator does not light or flash, even during operation. **Note** When the IC recorder is connected to a computer, the operation indicator lights or flashes even if "LED" is set to "OFF."	–
ALL ERASE	**All messages in the selected folder will be erased.** Select a folder from which all messages are to be erased in the FOLDER menu, then return to this menu. Press ► PLAY/STOP•ENTER while "ALL ERASE" is flashing.	51
MOVE	**The selected message will be moved to the selected folder (A, B, C, D or E).** Before attempting to move a message, select the message to be moved, then return to this menu.	52

Menu items	Settings (*: Initial setting)	See page
ALARM	**Sets the alarm.** ON: To set the alarm, select "ON" and set the date, time or day of the week, or choose "DAILY" for playback. B-ONLY: Only the alarm will sound when the alarm time comes. B-PLAY*: The selected message will be played back after the alarm when the alarm time comes. OFF*: The alarm setting is cancelled.	45
FOLDER	**Selects a folder from among 5 folders (A, B, C, D or E).**	24

Using the Supplied Digital Voice Editor Software

What You Can Do Using the Digital Voice Editor Software

The Digital Voice Editor software allows you to transfer messages that you have recorded using the IC recorder to your computer. You can save them on your computer, play them back, and edit them. You can also transfer music files saved on your computer to the IC recorder.

Transferring messages recorded on the IC recorder to your computer

You can save messages that you have recorded using the IC recorder on your computer's hard disk, by message, by folder, or all messages at one time. You can select a format to be used to save those messages as follows; MSV (LPEC) files, MSV (ADPCM) files, MP3 files, Windows standard WAV files.

Playing back messages on the computer

You can play back messages on the computer using the following functions, one-message repeat playback, A-B repeat playback, easy search, playback with a bookmarks as well as normal playback. You can also adjust the playback speed.

Transferring messages saved on your computer to the IC recorder to play

You can transfer messages saved on your computer, as well as other files, such as voice files sent by e-mail, MSV (LPEC/ADPCM) files, WAV files, MP3 files, by file or by folder, to the IC recorder. You can also play them back using the IC recorder.

Editing messages saved on your computer or IC recorder using your computer

You can change message titles or user names, sort messages, set/delete priority marks or bookmarks, divide/combine messages, etc., on your computer, depending on the format of the file. You can change the order of the messages in the IC recorder using the computer. You can also save messages saved on your computer by converting the voice format to a more appropriate one.

Other convenient uses

- You can send voice e-mail messages using MAPI e-mail software.
- You can transcribe your IC recorder messages using Dragon NaturallySpeaking® speech-recognition software (Only when Dragon NaturallySpeaking version 5.0 (or higher) Preferred or Professional Edition is installed on your computer).
- You can set/cancel the user name of the IC recorder, changing alarm settings, etc., on your computer.
- Using the CD Recording Tool for the Digital Voice Editor, you can play tracks of a CD in the computer's CD drive, and save CD tracks onto the PC hard disk in a file format that the Digital Voice Editor supports. Saved files can then be transferred to an IC recorder using the Digital Voice Editor.
- Using the CD Burning Tool for the Digital Voice Editor, you can make your original music CD or data CD from files recorded using the IC recorder, or from files saved on your computer's hard disk using the Digital Voice Editor.

Use of the CD Recording Tool and CD Burning Tool for DVE is limited to the personal purposes.

System requirements

Operating Systems:

Windows Vista® Ultimate
Windows Vista® Business
Windows Vista® Home Premium
Windows Vista® Home Basic
Windows® XP Media Center Edition 2005 Service Pack 2 or higher
Windows® XP Media Center Edition 2004 Service Pack 2 or higher
Windows® XP Media Center Edition Service Pack 2 or higher
Windows® XP Professional Service Pack 2 or higher
Windows® XP Home Edition Service Pack 2 or higher
Windows® 2000 Professional Service Pack 4 or higher
Pre-Installed

Note

64bit OS is not supported.

Hardware Environment:

Computer: IBM PC/AT or compatible

CPU : 266 MHz Pentium® II processor or higher (For Windows Vista®, 800MHz Pentium® III processor or higher)

RAM: 128MB or more (For Windows Vista®, 512MB or more)

Hard disk space: 150MB or more

CD-ROM drive (When creating an audio CD or data CD, a CD-R/RW drive is needed)

Port: USB port

Sound board: Sound cards compatible with any of the supported Microsoft® Windows® operating systems

Display: High color (16bit) or more and 800x480 dots or more

Internet access for Voice Mail function and CD database service

Note

The following systems are not supported:

– Any operating system other than the ones indicated above
– Personally assembled PCs or operating systems
– Upgraded operating systems
– Multi-boot environment
– Multi-monitor environment

Note on transcribing a message

When you use Dragon NaturallySpeaking® speech-recognition software to transcribe a message, your computer must also meet the system requirements that the Dragon NaturallySpeaking requires. For latest version and availability of Dragon NaturallySpeaking in each region, please refer to the following page: http://www.nuance.com/

Note on sending a voice e-mail

When you use Microsoft® Outlook Express 5.0/5.5/6.0 to send a voice e-mail of a message, your computer must also meet the system requirements that the Outlook Express requires.

Installing the software

Install the Digital Voice Editor software on your computer's hard disk.

Notes

- Be sure to close all running programs before installing the Digital Voice Editor software.
- When installing or uninstalling the software in Windows® 2000 Professional, make sure to log on Windows as the user name of "Administrator."
- When installing or uninstalling the software in Windows Vista® Home Basic/Windows Vista® Home Premium/Windows Vista® Business/Windows Vista® Ultimate/Windows® XP Home Edition Service Pack 2 or higher/Windows® XP Professional Service Pack 2 or higher/Windows® XP Media Center Edition Service Pack 2 or higher/Windows® XP Media Center Edition 2004 Service Pack 2 or higher/Windows® XP Media Center Edition 2005 Service Pack 2 or higher, log on as a user name with the "Computer administrator" user account. (To find if the user name has a "Computer administrator" user account, open the "User Accounts" from the "Control Panel" and refer to the section beneath the user name being displayed.)

- When the "Memory Stick Voice Editor 1.0/1.1/1.2/2.0" software has already been installed, installing the supplied software will automatically remove the "Memory Stick Voice Editor" software. (Messages are not removed.)
- After installing, the Microsoft DirectX module is also installed depending on the operation system of your computer. This module is not deleted after uninstalling the software.
- After installing the Digital Voice Editor software, do not install the "Memory Stick Voice Editor 1.0/1.1/1.2/2.0" software. The Digital Voice Editor will not work properly.
- With the supplied software, you can save or edit the messages in the "Memory Stick."

1 Make sure that the IC recorder is not connected, then turn on your computer and start up Windows.

2 Insert the supplied CD-ROM into the CD-ROM drive.

The [IC Recorder Software Setup] menu starts up automatically and the [Welcome to IC Recorder Software Setup] window appears. If the [Welcome to IC Recorder Software Setup] menu does not start up, open the [DVE] folder in the [Setup] folder on the CD-ROM, then double click [setup.exe].

3 Make sure that you accept the terms of the license agreement, select [I accept the terms of the license agreement], then click [Next].

The [Software Install] window appears.

4 Select [Digital Voice Editor], then click [Install].

Follow the instructions on the screen to make the settings required for installation.

If you have already installed a previous version of the Digital Voice Editor or any version of the "Memory Stick Voice Editor"

The dialog box used to uninstall a previous version of the Digital Voice Editor or any version of the "Memory Stick Voice Editor" will be displayed. Follow the instructions on the screen to uninstall the software. The message files are not removed.

Note

If any illegal data modification is attempted, or a file is used for other than private purposes, the file may become unplayable or the Digital Voice Editor may become inoperable.

When the dialog box used to select how to save files is displayed

When you save files recorded using the IC recorder onto the computer named above, you can select whether you wish to convert them into the MP3 format. Select the desired setting.

When the dialog box* used to select the language to be used for the help is displayed

Click the language you want to use for the help.

* The dialog box is not displayed in some regions.

5 When the [Ready to Install the Program] window appears, click [Install].

The installation starts.

6 When the [InstallShield Wizard Complete] window appears, select [Yes, I want to restart my computer now], then click [Finish].

The computer will be restarted.

When the computer has been restarted, installation is completed.

Uninstalling the software

When you wish to uninstall the software, follow the steps below.

For Windows 2000 or Windows XP

1 Click [Start], select [Settings], [Control Panel], then [Add or Remove Programs] or [Add/Remove Applications].

2 Select [Digital Voice Editor 3] from the list and click [Remove] or [Change/Remove].

3 Follow the instructions on the screen.

For Windows Vista

1 Click [Start] – [Control Panel] – [Programs], then select and click [Uninstall a Program] from the category.

2 Select [Digital Voice Editor 3] from the list and click [Uninstall].

3 Click [Continue] in the [User Account control] window.

4 Follow the instructions on the screen.

Note

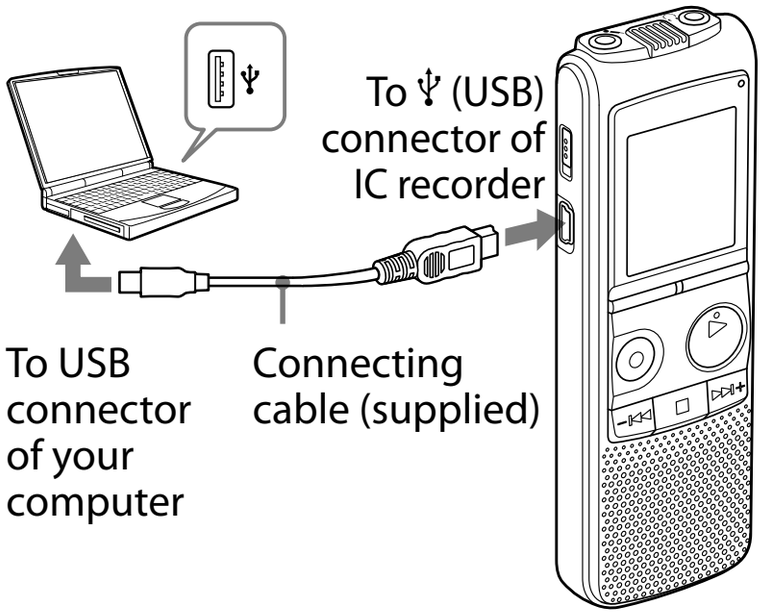
If you wish to move the software to another drive or directory after it is installed, you must uninstall the software first, then re-install it. The software does not work properly if you just move the software files.

Tip

- Uninstallation does not remove the message files.

Connecting the IC recorder to your computer

You can transfer the IC recorder data onto your computer by connecting the IC recorder to the computer.
Use the USB connecting cable supplied with the IC recorder to connect the ⇳ (USB) connector of the IC recorder and your computer.
The IC recorder is recognized by the computer as soon as the cable is connected. You can connect or disconnect the cable when the IC recorder and the computer are turned on or off.



Notes

- Be sure to install the Digital Voice Editor software before connecting the IC recorder to your computer. Otherwise, a message like [Found New Hardware Wizard] may appear when you connect the IC recorder to your computer. In this case, click [Cancel].
- Do not connect more than two USB devices to your computer. Normal operation will not be guaranteed.
- Use of this IC recorder with a USB hub or a USB extension cable is not guaranteed.
- A malfunction may occur depending on the USB devices connected at any one time.
- Before connecting the IC recorder to the computer, check that batteries are inserted in the IC recorder.
- When you connect the IC recorder to the computer, make sure that the IC recorder is in the stop mode.
- It is recommended that you disconnect the cable from the computer when you do not use the Digital Voice Editor.

Referring to the help files

For details on each operation, refer to the help files.

Disconnecting the IC recorder from your computer

Follow the procedures below; otherwise, data may be damaged.

1 Make sure that the operation indicator is not flashing.

2 Disconnect the USB connecting cable connected to the IC recorder from the USB connector of the computer.

On the Windows screen, left-click "Safely Remove Hardware" on the taskbar, and click "Safely remove USB Mass Storage Device."

On the Macintosh screen, drag the "IC RECORDER" on the desktop to "Trash" and drop it there.

For details on disconnecting the IC recorder, refer to the operating instructions supplied with your computer.

Troubleshooting

Before taking the IC recorder for repair, check the following sections. Should any problem persist after you have made these checks, consult your nearest Sony dealer.

IC recorder

Symptom	Remedy
The IC recorder cannot be turned off.	• Slide the HOLD switch in the direction of the arrow when the IC recorder is stopped (page 18).
The IC recorder cannot be turned on.	• The HOLD switch is set. Slide the HOLD switch in the direction opposite that of the arrow (page 18).
Display does not disappear. Display appears blurred.	• Remove the protective film on the display window before you use the IC recorder.
The IC recorder does not operate.	• The batteries have been inserted with incorrect polarity (page 12). • The batteries are weak (page 13). • The buttons are locked with the HOLD switch (page 55).
No sound comes from the speaker.	• The volume is turned down completely (page 37). • Headphones are plugged in (page 37).
Sound comes from the speaker even when the headphones are plugged in.	• If you plug in the headphones not securely during playback, the sound may come from the speaker. Unplug the headphones and then insert them securely.

Symptom	Remedy
The operation indicator does not light.	• "LED" is set to "OFF" (page 64). Display the menu and set "LED" to "ON."
"FULL" is displayed and you cannot start recording.	• The memory is full. Erase some of the messages (page 49) or erase all the messages after you store them on your computer.
"FULL" is displayed and you cannot operate the IC recorder.	• 99 messages have been recorded in the selected folder or 495 messages (when there are 5 folders) in total have been recorded. Therefore you cannot record another message, or move a message. Erase some of the messages (page 49) or erase all the messages after you store them on your computer.
Recording is interrupted.	• The VOR function (page 27) is activated. Set "VOR" to "OFF" in the menu (page 61).
Noise is heard.	• An object, such as your finger, etc., accidentally rubbed or scratched the IC recorder during recording so that noise was recorded. • The IC recorder was placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback. • Plug of the connected microphone was dirty when recording. Clean the plug. • The 🎧 (headphones) plug is dirty. Clean the plug.
Recording level is low.	• "SENS" (microphone sensitivity) is set to "🎤L." Display the menu and set "SENS" to "🎤H" (page 61).

Symptom	Remedy
When recording from other equipment, the input level is too strong or not strong enough.	• Connect the headphone jack of other equipment to the (microphone) jack of the IC recorder and adjust the volume level on the equipment connected to the IC recorder.
Playback speed is too fast or too slow.	• The playback speed is adjusted in DPC. Adjust the speed in DPC again in the menu (page 62).
"--:--" is displayed.	• You have not set the clock (page 15).
"--Y--M--D" or " --:--" is displayed on the REC DATE display.	• The date of recording will not be displayed if you recorded the message when the clock was not set.
There are fewer menu items displayed in the menu mode.	• The menu items displayed are different depending on the operation modes (stop mode, playback mode, and recording mode) (page 60).
The remaining time displayed in the display window is shorter than that displayed in the supplied Digital Voice Editor software.	• The IC recorder requires a certain amount of memory for system operation. That amount is subtracted from the remaining time, which is the reason for the difference.
The battery life is short.	• The battery life on page 13 is based on playback with the volume level set to 27. The battery life may shorten depending on the operation of the IC recorder.

Symptom	Remedy
There is no battery power remaining after you have left the batteries inserted for long time without using the IC recorder.	• Even if you do not use the IC recorder, the batteries are consumed slightly. The battery life in this case varies depending on humidity or other environmental conditions. Usually, the batteries last about four months. If you do not intend to use the IC recorder for an extended period of time, it is recommended that you turn the power off (page 18) or remove the batteries.
It takes a long time for the IC recorder to start.	• If the IC recorder is required to process a large amount of data, it may take longer for the IC recorder to start. This is not a malfunction of the IC recorder. Wait until the start-up display disappears.
The IC recorder does not operate correctly.	• Take out the batteries and insert them again (page 12).
The IC recorder is not recognized by your computer. A folder/file cannot be transferred from your computer.	• Disconnect the IC recorder from your computer and reconnect it. • Do not use a USB hub or USB extension cable other than the supplied USB connecting cable. Connect the IC recorder using the supplied USB connecting cable. • Operation is not guaranteed if you use any system requirements other than those described on page 68. • Depending on the USB connector position, the IC recorder may not be recognized. If this happens, try another connector.

Please note that recorded messages may be erased during service or repair work.

Digital Voice Editor

Refer to the Help files of the Digital Voice Editor software, too.

Symptom	Remedy
The Digital Voice Editor software cannot be installed.	• The free disk or memory space on the computer is too small. Check the hard disk and memory space. • You are trying to install the software into the operating system that the Digital Voice Editor software does not support. • In Windows Vista® Ultimate/Windows Vista® Business/ Windows Vista® Home Premium/Windows Vista® Home Basic/Windows® XP Media Center Edition 2005 Service Pack 2 or higher/Windows® XP Media Center Edition 2004 Service Pack 2 or higher/Windows® XP Media Center Edition Service Pack 2 or higher/Windows® XP Professional Service Pack 2 or higher/Windows® XP Home Edition Service Pack 2 or higher, you log on as a user name belonging to a user account with limitations. Make sure to log on as a user name with the "Computer administrator" user account. • In Windows® 2000 Professional, make sure to log on as the user name of "Administrator."
The IC recorder or "Memory Stick" cannot be properly connected.	• Check that the installation of the software has been successful. Also check the connection as follows: – When using an external USB hub, connect the IC recorder directly to the computer. – Disconnect and then connect the cable with the IC recorder. – Connect the IC recorder to another USB connector. • Your computer may be in the system standby/hibernate mode. Do not let your computer enter into the system standby/ hibernate mode while being connected to the IC recorder.

Symptom	Remedy
Messages cannot be played back./Playback sound volume is too low.	• No sound board is installed. • No speaker is built-in or connected to the computer. • The volume of the sound is turned down. • Turn up the volume on the computer. (Refer to the instruction manual of the computer.) • The volume of WAV files can be changed and saved using the "Increase Volume" feature of the Microsoft Sound Recorder.
Saved message files cannot be played back or edited.	• You cannot play back a message whose file format the Digital Voice Editor software does not support. Depending on the file format, you cannot use part of editorial features of the software.
Counter or slider moves incorrectly. There is noise.	• This happens when you play back messages that you divided, combined, overwrote, or added a recording. Save a message in the hard disk first, and then add it to the IC recorder. Select the saving file format that suits the IC recorder you use.
Operation is slow when there are many messages.	• When the total number of messages increases, the operation becomes slower, regardless of the length of the recording time.
Display does not work during saving, adding, or deleting of messages.	• It takes a longer time to copy or delete long messages. After completing operations, the display works normally.
It takes too long to convert a file format.	• The time required for file conversion becomes longer as the file size is bigger.

Symptom	Remedy
The software 'hangs' when the Digital Voice Editor software starts up.	• Do not disconnect the connector of the IC recorder while the computer is communicating with the IC recorder. Otherwise the computer operations become unstable or the data inside the IC recorder may be damaged. • There may be conflict between the software and other driver or application. • Do not install the "Memory Stick Voice Editor" software and the Digital Voice Editor Ver. 2x software after you installed the Digital Voice Editor software. The Digital Voice Editor may not operate properly.

Error messages

Error message	Cause/Remedy
LO BATT	• Batteries are exhausted. Replace the old batteries with new ones.
FULL (REC flashes at the same time)	• The remaining memory capacity of the IC recorder is insufficient. Erase some messages before recording.
FULL (message number flashes at the same time)	• As there are already 99 messages in the current folder, you cannot record a new message. Erase some messages before recording.
FULL (folder indicator flashes at the same time)	• As there are already 99 messages in the folder to which you want to move a message, you cannot move the message. Erase some messages before moving.
SET DATE	• Set the clock; otherwise, you cannot set the alarm.
NO DATA	• The selected folder does not have any messages. You cannot lock a message, erase a message(s) or set the alarm, etc.
PRE SET	• You set the alarm when you have already set it previously. Check the setting and set the appropriate date and time.
BACK-D	• You set the alarm when the time has already passed. Check the setting and set the appropriate date and time.
🔓	• You selected a message that has been locked. You cannot add a new message to it, cannot orverwrite it, and cannot erase it. Set "LOCK" to "OFF" in the menu before erasing the message.
NO EDIT	• The selected message is not the one that was recorded using the IC recorder. You cannot divide it, add a recording to it, or overwrite it, etc.

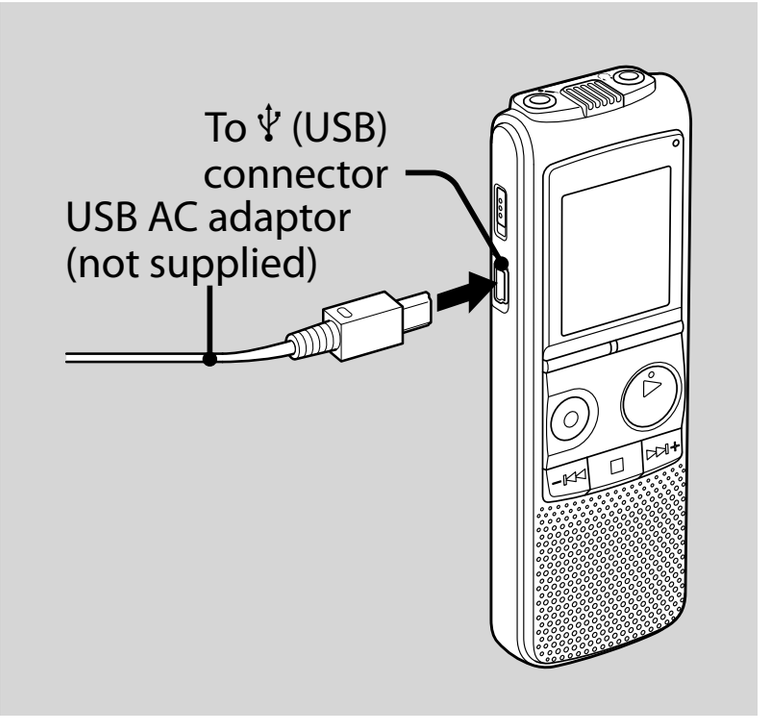
Error message	Cause/Remedy
OFF REC-OP	• You cannot add a recording or overwrite a recording because "REC-OP" is set to "OFF." Set it to "ON."
ERR ACCESS ERR 01 – ERR 05	• A system error other than the above has occurred. Take out the batteries and insert them again (page 12).

System limitations

There are some system limitations of the IC recorder. Troubles as mentioned below are not malfunctions of the IC recorder.

Symptom	Cause/Remedy
You cannot record messages up to the maximum recording time.	• If you record messages in a mixture of SHQ, HQ, SP or LP modes, the recordable time varies from the maximum SHQ mode recording time to the maximum LP mode recording time. • The sum of the number on the counter (elapsed recording time) and the remaining recording time may be less than the IC recorder's maximum recording time.
You cannot display music files in order.	• If you have transferred music files using your computer, those files may not be copied in order of transfer because of the System limitation.
You cannot specify the finishing point B.	• You cannot specify the finishing point B before the starting point A that has been set.
When you set A-B Repeat playback, the set positions move a little.	• Depending on the files transferred to the IC recorder from your computer, the set positions may move.

Using a USB AC Adaptor (not supplied)



You can connect the IC recorder to an AC outlet using a USB AC adaptor AC-U50A/AC-U50AD/AC-NWUM50 (not supplied).

1 Connect the supplied USB connecting cable to the ⚷ (USB) connector of the IC recorder.

2 Connect a USB AC adaptor (not supplied) to the USB connecting cable.

3 Connect the USB AC adaptor to an AC outlet.

Disconnecting the IC recorder from the AC outlet

Follow the procedures below; otherwise, data may be damaged.

1 If you are recording or playing back a message, press ■ (stop) to put the IC recorder into the stop mode.

2 Make sure that the operation indicator is not flashing.

3 Disconnect the USB AC adaptor from the AC outlet, then disconnect the USB connecting cable from the USB AC adaptor.

Notes

- During recording (the operation indicator lights or flashes in red) or accessing data (the operation indicator flashes in orange),
  - the IC recorder should not be connected to or disconnected from the USB AC adaptor connected to the AC outlet.
  - the USB AC adaptor connected to the IC recorder should not be connected to or disconnected from the AC outlet.

  Doing so may damage the data. If the IC recorder is required to process a large amount of data, the start-up window may be displayed for an extended period of time. This is not a malfunction of the IC recorder. Wait until the start-up display disappears from the display window.
- While a USB AC adaptor (not supplied) is being used, the battery indicator does not appear in the display window.

Precautions

On power

- Operate the unit only on 1.5 V or 1.2 V DC. Use two LR03 (size AAA) alkaline batteries or two NH-AAA rechargeable batteries.

On safety

- Do not operate the unit while driving, cycling or operating any motorized vehicle.

On handling

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Should any solid object or liquid fall into the unit, remove the batteries and have the unit checked by qualified personnel before operating it any further.

On noise

- Noise may be heard when the unit is placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback.
- Noise may be recorded when an object, such as your finger, etc., rubs or scratches the unit during recording.

On maintenance

- To clean the exterior, use a soft cloth slightly moistened in water. Do not use alcohol, benzine or thinner.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

Backup recommendations

To avoid potential risk of data loss caused by accidental operation or malfunction of the IC recorder, we recommend that you save a backup copy of your recorded messages on a tape recorder or to a computer, etc.

Specifications

IC recorder section

Capacity (User available capacity)

1 GB (approx. 989 MB =1,037,565,952 Byte)
A part of the memory capacity is used as a management area.

Recording time*1

See page 23.

*1 When you are going to record continuously for a long time, you may have to replace the batteries with new ones in the midst of recording. For details on the battery life, refer to page 13.

Frequency range

- SHQ : 75 Hz - 20,000 Hz
- HQ : 75 Hz - 17,000 Hz
- SP : 75 Hz - 15,000 Hz
- LP : 75 Hz - 3,500 Hz

MP3 bit rate and sampling frequency for recording mode

- SHQ : 44.1 kHz, 192 kbps stereo
- HQ : 44.1 kHz, 128 kbps stereo
- SP : 44.1 kHz, 48 kbps mono
- LP : 11.025 kHz, 8 kbps mono

General

Speaker

Approx. 28 mm (1 1/8 in.) dia.

Power output

300 mW

Input/Output

- Microphone jack (minijack, stereo)
  – input for plug in power, minimum input level 0.5 mV, 3 kilohms or lower impedance microphone
- Headphone jack (minijack, stereo)
  – output for 8 - 300 ohms headphones
- USB connector
  – High-Speed USB compatible

Playback speed control (DPC)

+100% to –50%

Power requirements

Two LR03 (size AAA) alkaline batteries (supplied): 1.5 V DC
Two NH-AAA rechargeable batteries (not supplied): 1.2 V DC

Operating temperature

5˚C - 35˚C (41˚F - 95˚F)

Dimensions (w/h/d) (not incl. projecting parts and controls) (JEITA)*2

37 × 111 × 21.2 mm (1 1/2 × 4 3/8 × 27/32 in.)

Mass (JEITA)*2

Approx. 71 g (2 1/2 oz) including LR03 (size AAA) alkaline batteries

*2 Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association)

Supplied accessories

See page 7.

Optional accessories

Active speaker (excluding China) SRS-T88 (U.S.A. and Canada only), SRS-T80
Electret condenser microphone (excluding China) ECM-CS10, ECM-CZ10, ECM-DS70P, ECM-DS30P, ECM-TL1
Audio connecting cable (excluding China) RK-G136, RK-G139
Rechargeable battery NH-AAA-B2K, NH-AAA-B2E (China only)
USB AC adaptor AC-U50AD (U.S.A. and Canada only), AC-U50A, AC-NWUM50 (China only)
Battery charger BCG-34HS2KA, BCG-34HS2A (China only)

Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information.

Design and specifications are subject to change without notice.

Index

A

A-B Repeat 41
Adjusting the volume 21, 37
Alarm 45, 65

B

Battery 12, 13
Battery indicator 13
Battery life 13
Beep 64
Built-in microphones 19

C

Connecting the IC recorder to your computer 72
Continuous Play 39
Cue 37

D

Digital Voice Editor 7, 66
Dividing a message 28, 53
DPC (the Digital Pitch Control function) 42, 60, 62

E

Easy Search 37, 62
Editing Messages 49
Erasing Messages 49
Error Messages 82
External microphone 30

F

Folder 19, 36

H

HOLD 18, 55
HQ 13, 22, 23, 61

I

Index to Parts and Controls
- Display window 9
- Front 8
- Rear 9

L

LP 13, 22, 23, 61

M

Maintenance....87

Menu

- ALARM....60, 65
- ALL ERASE....60, 64
- BEEP....60, 64
- CONT....60, 62
- DPC....60, 62
- EASY-S....60, 62
- FOLDER....60, 65
- HOUR....60, 63
- LED....60, 64
- LOCK....60, 61
- Making Settings....58
- Menu settings....60
- MODE....60, 61
- MOVE....60, 64
- REC-OP....60, 63
- SENS....60, 61
- SET DATE....60, 63
- VOR....60, 61

Message number....10

Microphone sensitivity....25, 61

Monitoring the recording....21

Moving a Message....52, 64

N

Noise....87

P

Pause recording....21, 28

Playing Back Messages....36

Precautions....87

Preparing a Power Source....12

R

Rechargeable battery....7, 12, 14

Recording from a telephone....31

Recording Messages....19

Recording mode....22, 61

Recording time....23

Recording with an external microphone....30

Recording with other equipment....43

Review....37

S

Setting the clock....15

SHQ....13, 22, 23, 61

Software....66

SP....13, 22, 23, 61

Specifications....88

System Limitations....84

T

Troubleshooting.....75

U

USB AC Adaptor.....85

V

VOR function 27, 61

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The "Digital Voice Editor" uses software modules as shown below:
Microsoft DirectX Runtime 9.0c
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http://www.sony.net/

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